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OM nucleic - nucleic search, using sw model

Run on: December 30, 2005, 18:55:16 ; Search time 190 Seconds
(without alignments)
55.182 Million cell updates/sec

Title: US-09-914-454B-1

Perfect score: 20

Sequence: 1 tccatgacgttcttcgacgtt 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4172979 seqs, 262114271 residues

Total number of hits satisfying chosen parameters: 8345958

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA New.*

- 1: /cgn2_6/prodata/1/pubpna/US08_NEW_PUB.seq.*
- 2: /cgn2_6/prodata/1/pubpna/US06_NEW_PUB.seq.*
- 3: /cgn2_6/prodata/1/pubpna/US07_NEW_PUB.seq.*
- 4: /cgn2_6/prodata/1/pubpna/PCT_NEW_PUB.seq.*
- 5: /cgn2_6/prodata/1/pubpna/US09_NEW_PUB.seq.*
- 6: /cgn2_6/prodata/1/pubpna/US10_NEW_PUB.seq.*
- 7: /cgn2_6/prodata/1/pubpna/US11_NEW_PUB.seq.*
- 8: /cgn2_6/prodata/1/pubpna/US11_NEW_PUB.seq2.*
- 9: /cgn2_6/prodata/1/pubpna/US11_NEW_PUB.seq3.*
- 10: /cgn2_6/prodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	6	US-10-469-561-5
2	20	100.0	20	6	US-10-619-279-10
3	20	100.0	20	6	US-10-435-656-10
4	20	100.0	20	7	US-11-025-858-3
5	20	100.0	20	7	US-11-025-858-7
6	20	100.0	20	7	US-11-127-654-63
7	20	100.0	20	7	US-11-127-654-82
8	20	100.0	20	7	US-11-127-654-130
9	20	100.0	20	7	US-11-127-654-145
10	20	100.0	20	7	US-11-127-654-146
11	20	100.0	20	7	US-11-127-654-292
12	20	100.0	20	7	US-11-127-654-916
13	20	100.0	20	7	US-11-154-324-1
14	20	100.0	20	7	US-11-089-426-22
15	20	100.0	20	7	US-11-134-918-10
16	20	100.0	20	7	US-11-031-460-10
17	20	100.0	20	7	US-11-087-177-45
18	18.4	92.0	20	7	US-11-127-654-221
19	18.4	92.0	1191	6	US-10-750-185-47485
20	18	90.0	20	6	US-10-497-591A-37
21	18	90.0	20	6	US-10-497-591A-38
22	18	90.0	20	7	US-11-127-654-303
23	17	85.0	17	6	US-10-619-279-70

24	17	85.0	17	7	US-11-127-654-66	Sequence 66, Appl
25	16.8	84.0	20	6	US-10-497-591A-12	Sequence 12, Appl
26	16.8	84.0	20	6	US-10-469-561-9	Sequence 9, Appl
27	16.8	84.0	20	6	US-10-619-279-7	Sequence 7, Appl
28	16.8	84.0	20	6	US-10-619-279-73	Sequence 73, Appl
29	16.8	84.0	20	6	US-10-435-656-7	Sequence 7, Appl
30	16.8	84.0	20	6	US-10-435-656-35	Sequence 35, Appl
31	16.8	84.0	20	6	US-10-435-656-44	Sequence 44, Appl
32	16.8	84.0	20	6	US-10-435-656-54	Sequence 54, Appl
33	16.8	84.0	20	7	US-11-025-858-2	Sequence 2, Appl
34	16.8	84.0	20	7	US-11-025-858-6	Sequence 6, Appl
35	16.8	84.0	20	7	US-11-127-654-10	Sequence 10, Appl
36	16.8	84.0	20	7	US-11-127-654-11	Sequence 11, Appl
37	16.8	84.0	20	7	US-11-127-654-77	Sequence 77, Appl
38	16.8	84.0	20	7	US-11-127-654-215	Sequence 215, App
39	16.8	84.0	20	7	US-11-127-654-219	Sequence 219, App
40	16.8	84.0	20	7	US-11-127-654-224	Sequence 224, App
41	16.8	84.0	20	7	US-11-127-654-229	Sequence 229, App
42	16.8	84.0	20	7	US-11-127-654-268	Sequence 268, App
43	16.8	84.0	20	7	US-11-127-654-269	Sequence 269, App
44	16.8	84.0	20	7	US-11-127-654-731	Sequence 731, App
45	16.8	84.0	20	7	US-11-127-654-779	Sequence 779, App

ALIGNMENTS

RESULT 1
US-10-469-561-5
; Sequence 5, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG435505W
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-5

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27; 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

QY 1 TCCATGACGTTCTTCGACGTT 20
Db 1 TCCATGACGTTCTTCGACGTT 20

RESULT 2
US-10-619-279-10
; Sequence 10, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30

; PRIOR APPLICATION NUMBER: US 08/386,063
 ; PRIOR FILING DATE: 1995-02-07
 ; PRIOR APPLICATION NUMBER: US 08/276,358
 ; PRIOR FILING DATE: 1994-07-15
 ; NUMBER OF SEQ ID NOS: 123
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 10
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Oligonucleotide
 US-10-619-279-10
 Query Match 100.0%; Score 20; DB 6; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.27;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCCATGACGTTCTGACGTT 20
 Db 1 TCCATGACGTTCTGACGTT 20
 RESULT 3
 US-10-435-656-10
 ; Sequence 10, Application US/10435656
 ; Publication No. US20050277604A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Kline, Josi N.
 ; APPLICANT: Klinman, Dennis
 ; APPLICANT: Steinberg, Alfred D.
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
 ; FILE REFERENCE: C1039/7048 (AWS)
 ; CURRENT APPLICATION NUMBER: US/10/435,656
 ; CURRENT FILING DATE: 2003-08-09
 ; PRIOR APPLICATION NUMBER: US 08/276,358
 ; PRIOR FILING DATE: 1994-07-15
 ; PRIOR APPLICATION NUMBER: US 08/386,063
 ; PRIOR FILING DATE: 1995-02-07
 ; PRIOR APPLICATION NUMBER: US 08/738,652
 ; PRIOR FILING DATE: 1996-10-30
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 10
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic oligonucleotide
 US-10-435-656-10
 Query Match 100.0%; Score 20; DB 6; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.27;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCCATGACGTTCTGACGTT 20
 Db 1 TCCATGACGTTCTGACGTT 20
 RESULT 4
 US-11-025-858-3
 ; Sequence 3, Application US/11025858
 ; Publication No. US20050250723A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hoerr, Ingmar
 ; APPLICANT: Von Der Mulbe, Florian
 ; APPLICANT: Pascolo, Steve
 ; TITLE OF INVENTION: Immunostimulation by chemically modified RNA
 ; FILE REFERENCE: Curevac GmbH (2793-1-002)
 ; CURRENT APPLICATION NUMBER: US/11/025,858
 ; CURRENT FILING DATE: 2004-12-28
 ; PRIOR APPLICATION NUMBER: US 08/386,063
 ; PRIOR FILING DATE: 1995-02-07
 ; PRIOR APPLICATION NUMBER: US 08/276,358
 ; PRIOR FILING DATE: 1994-07-15
 ; NUMBER OF SEQ ID NOS: 123
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 10
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic oligonucleotide, CpG RNA 1826
 US-11-025-858-3
 Query Match 100.0%; Score 20; DB 7; Length 20;
 Best Local Similarity 65.0%; Pred. No. 0.27;
 Matches 13; Conservative 7; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCCATGACGTTCTGACGTT 20
 Db 1 UCCAUGACGTTCCUGACGUU 20
 RESULT 5
 US-11-025-858-7
 ; Sequence 7, Application US/11025858
 ; Publication No. US20050250723A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hoerr, Ingmar
 ; APPLICANT: Von Der Mulbe, Florian
 ; APPLICANT: Pascolo, Steve
 ; TITLE OF INVENTION: Immunostimulation by chemically modified RNA
 ; FILE REFERENCE: Curevac GmbH (2793-1-002)
 ; CURRENT APPLICATION NUMBER: US/11/025,858
 ; CURRENT FILING DATE: 2004-12-28
 ; PRIOR APPLICATION NUMBER: PCT/EP2003/007175
 ; PRIOR FILING DATE: 2003-07-03
 ; PRIOR APPLICATION NUMBER: DE 10229872.6
 ; PRIOR FILING DATE: 2002-07-03
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: Patent in version 3.3
 ; SEQ ID NO 7
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: synthetic oligonucleotide, CpG DNA 1826
 US-11-025-858-7
 Query Match 100.0%; Score 20; DB 7; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.27;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCCATGACGTTCTGACGTT 20
 Db 1 TCCATGACGTTCTGACGTT 20
 RESULT 6
 US-11-127-654-63
 ; Sequence 63, Application US/11127654
 ; Publication No. US20050250726A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Berg, Daniel J.
 ; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
 ; TITLE OF INVENTION: INFLAMMATORY DISEASES
 ; FILE REFERENCE: C1039.70060US01
 ; CURRENT APPLICATION NUMBER: US/11/127,654
 ; CURRENT FILING DATE: 2005-05-12
 ; PRIOR APPLICATION NUMBER: US 10/112,653
 ; PRIOR FILING DATE: 2002-03-29
 ; PRIOR APPLICATION NUMBER: US 60/279,642

; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-63

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
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DB 1 TCCATGACGTTCTCTGACGTT 20

RESULT 7

US-11-127-654-82
; Sequence 82, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 82
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)..(8)
; OTHER INFORMATION: m5C
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (17)..(17)
; OTHER INFORMATION: m5C
US-11-127-654-82

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
DB 1 TCCATGACGTTCTCTGACGTT 20

RESULT 8

US-11-127-654-130
; Sequence 130, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653

; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 130
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-130

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
DB 1 TCCATGACGTTCTCTGACGTT 20

RESULT 9

US-11-127-654-145
; Sequence 145, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 145
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-145

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
DB 1 TCCATGACGTTCTCTGACGTT 20

RESULT 10

US-11-127-654-146
; Sequence 146, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653

us-09-914-454b-1.rnpbn

Tue Jan 3 10:58:23 2006

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; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-146

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 11
US-11-127-654-292
; Sequence 292, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 292
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-292

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 12
US-11-127-654-916
; Sequence 916, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 916
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-916

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 13
US-11-154-324-1
; Sequence 1, Application US/11154324
; Publication No. US20050255124A1
; GENERAL INFORMATION:
; APPLICANT: HOUGHTON, Michael
; APPLICANT: COATES, Steve
; APPLICANT: O'HAGAN, Derek
; TITLE OF INVENTION: HCV ELIS2 VACCINE COMPOSITIONS
; FILE REFERENCE: 2302-17206
; CURRENT APPLICATION NUMBER: US/11/154,324
; CURRENT FILING DATE: 2005-06-16
; PRIOR APPLICATION NUMBER: US/10/187,257
; PRIOR FILING DATE: 2002-06-28
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CpG oligonucleotide
US-11-154-324-1

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 14
US-11-089-426-22
; Sequence 22, Application US/11089426
; Publication No. US20050261229A1
; GENERAL INFORMATION:
; APPLICANT: Gillies, Stephen D.
; APPLICANT: Lo, Kin-Ming
; APPLICANT: Wesolowski, John
; TITLE OF INVENTION: PC Fusion Proteins For Enhancing the Immunogenicity of
; FILE REFERENCE: LEX-007
; CURRENT APPLICATION NUMBER: US/11/089,426
; CURRENT FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: US/09/621,268
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/144,965
; PRIOR FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 20

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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial
; OTHER INFORMATION: Sequence: oligodeoxynucleotide that may be used as
; OTHER INFORMATION: an adjuvant
US-11-089-426-22

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
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Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 15
US-11-134-918-10
; Sequence 10, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; PRIOR FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-10

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
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Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 16
US-11-031-460-10
; Sequence 10, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; PRIOR FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
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; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-10

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 17
US-11-087-177-45
; Sequence 45, Application US/11087177
; Publication No. US20050276756A1
; GENERAL INFORMATION:
; APPLICANT: Soo Hoo, William
; TITLE OF INVENTION: COMPOSITIONS AS ADJUVANTS TO IMPROVE
; TITLE OF INVENTION: IMMUNE RESPONSES TO VACCINES AND METHODS OF USE
; FILE REFERENCE: 69247-018
; CURRENT APPLICATION NUMBER: US/11/087,177
; PRIOR FILING DATE: 2005-03-22
; PRIOR APPLICATION NUMBER: 60/555,827
; PRIOR FILING DATE: 2004-03-24
; PRIOR APPLICATION NUMBER: 60/582,479
; PRIOR FILING DATE: 2004-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic CpG oligonucleotide
; NAME/KEY: modified base
; LOCATION: (1)...(19)
; OTHER INFORMATION: phosphorothiated bases
US-11-087-177-45

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 18
US-11-127-654-221
; Sequence 221, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
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Query Match	Best Local Similarity	Score	DB	Length	Indels	Mismatches	Gaps
Query Match	Best Local Similarity	Score	DB	Length	Indels	Mismatches	Gaps
92.0%;	95.0%;	18.4;	DB 7;	Length 20;	1;	0;	0;
Matches 19;	Conservative 0;						
QY 1	TCCATGACGTTCTCTGACGTT 20						
DB 1	TCCATGACGTTCTCTGCGTT 20						
RESULT 19	US-10-750-185-47485/c						
Sequence 47485,	Application US/10750185						
Publication No. US20050260603A1							
GENERAL INFORMATION:							
APPLICANT: MMI GENOMICS, INC.							
APPLICANT: DENISE, Sue K.							
APPLICANT: KERR, Richard							
APPLICANT: ROSENFELD, David							
APPLICANT: HOLM, Tom							
APPLICANT: BATES, Stephen							
APPLICANT: FANTIN, Dennis							
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS							
FILE REFERENCE: MM1100-2							
CURRENT APPLICATION NUMBER: US/10/750,185							
CURRENT FILING DATE: 2003-12-31							
PRIOR APPLICATION NUMBER: US 60/437,482							
PRIOR FILING DATE: 2002-12-31							
NUMBER OF SEQ ID NOS: 64922							
SOFTWARE: PatentIn version 3.1							
SEQ ID NO 47485							
LENGTH: 1191							
TYPE: DNA							
ORGANISM: Bovine							
19866881256760							
US-10-750-185-47485							
Query Match	Best Local Similarity	Score	DB	Length	Indels	Mismatches	Gaps
92.0%;	95.0%;	18.4;	DB 6;	Length 1191;	1;	0;	0;
Matches 19;	Conservative 0;						
QY 1	TCCATGACGTTCTCTGACGTT 20						
DB 205	TCCATGACGTTCTCTGATGTT 186						
RESULT 20	US-10-497-591A-37						
Sequence 37,	Application US/10497591A						
Publication No. US20050250716A1							
GENERAL INFORMATION:							
APPLICANT: SCHMIDT, WALTER							
APPLICANT: SCHELLACK, CAROLA							
APPLICANT: EGYED, ALENA							
APPLICANT: LINGNAU, KAREN							
TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES							
FILE REFERENCE: SONN.04SUS							
CURRENT APPLICATION NUMBER: US/10/497,591A							
CURRENT FILING DATE: 2004-06-03							
PRIOR APPLICATION NUMBER: PCT/EP02/13791							

APPLICANT: Krieg, Arthur M.
APPLICANT: Berg, Daniel J.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
TITLE OF INVENTION: INFLAMMATORY DISEASES
FILE REFERENCE: C1039.700600US01
CURRENT APPLICATION NUMBER: US/11/127,654
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 10/112,653
PRIOR FILING DATE: 2002-03-29
PRIOR APPLICATION NUMBER: US 60/279,642
PRIOR FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 1040
SOFTWARE: PatentIn version 3.2
SEQ ID NO 303
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
FEATURE:
NAME/KEY: misc feature
LOCATION: (8)..(8)
OTHER INFORMATION: I
FEATURE:
NAME/KEY: misc feature
LOCATION: (17)..(17)
OTHER INFORMATION: I
US-11-127-654-303

Query Match 90.0%; Score 18; DB 7; Length 20;
Best Local Similarity 90.0%; Pred. No. 2.8;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
|||||
DB 1 TCCATGANGTTCTGANGTT 20

RESULT 23
US-10-619-279-70
Sequence 70, Application US/10619279
Publication No. US20050267057A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7023/HCL
CURRENT APPLICATION NUMBER: US/10/619,279
CURRENT FILING DATE: 2003-07-14
PRIOR APPLICATION NUMBER: US 08/960,774
PRIOR FILING DATE: 1997-10-30
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 70
LENGTH: 17
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-70

Query Match 85.0%; Score 17; DB 6; Length 17;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 ATGACGTTCTGACGTT 20
|||||
DB 1 ATGACGTTCTGACGTT 17

RESULT 24
US-11-127-654-66
Sequence 66, Application US/11127654
Publication No. US20050250726A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Berg, Daniel J.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
TITLE OF INVENTION: INFLAMMATORY DISEASES
FILE REFERENCE: C1039.700600US01
CURRENT APPLICATION NUMBER: US/11/127,654
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 10/112,653
PRIOR FILING DATE: 2002-03-29
PRIOR APPLICATION NUMBER: US 60/279,642
PRIOR FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 1040
SOFTWARE: PatentIn version 3.2
SEQ ID NO 66
LENGTH: 17
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-66

Query Match 85.0%; Score 17; DB 7; Length 17;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 ATGACGTTCTGACGTT 20
|||||
DB 1 ATGACGTTCTGACGTT 17

RESULT 25
US-10-497-591A-12
Sequence 12, Application US/10497591A
Publication No. US20050250716A1
GENERAL INFORMATION:
APPLICANT: SCHMIDT, WALTER
APPLICANT: SCHELLACK, CAROLA
APPLICANT: EGYED, ALENA
APPLICANT: LINGNAU, KAREN
TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
FILE REFERENCE: SONN:045US
CURRENT APPLICATION NUMBER: US/10/497,591A
CURRENT FILING DATE: 2004-06-03
PRIOR APPLICATION NUMBER: PCT/EP02/13791
PRIOR FILING DATE: 2002-12-05
PRIOR APPLICATION NUMBER: A 1924/2001
PRIOR FILING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 113
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 12
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Primer
US-10-497-591A-12

Query Match 84.0%; Score 16.8; DB 6; Length 20;
Best Local Similarity 90.0%; Pred. No. 11;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
|||||
DB 1 TCCATGACGTTCTGATGCT 20

us-09-914-454b-1.rnpbn

Tue Jan 3 10:58:23 2006

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; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 73
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-10-619-279-73

Query Match      84.0%; Score 16.8; DB 6; Length 20;
Best Local Similarity 90.0%; Pred. No. 11;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGTCGTTCTCTGTCGTT 20

RESULT 29
US-10-435-656-7
; Sequence 7, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-10-435-656-7

Query Match      84.0%; Score 16.8; DB 6; Length 20;
Best Local Similarity 90.0%; Pred. No. 11;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 28
US-10-619-279-73
; Sequence 73, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-10-619-279-73

Query Match      84.0%; Score 16.8; DB 6; Length 20;
Best Local Similarity 90.0%; Pred. No. 11;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 27
US-10-619-279-7
; Sequence 7, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-10-619-279-73

Query Match      84.0%; Score 16.8; DB 6; Length 20;
Best Local Similarity 90.0%; Pred. No. 11;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 26
US-10-469-561-9
; Sequence 9, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG4355USW
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
; US-10-469-561-9
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US-10-435-656-35
; Sequence 35, Application US/10435656
; Publication No: US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-35

Query Match 84.0%; Score 16.8; DB 6; Length 20;
Best Local Similarity 90.0%; Pred. No. 11;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

Search completed: December 30, 2005, 20:18:29
Job time : 191 secs

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OM protein - protein search, using sw model

Run on: December 30, 2005, 08:25:13 ; Search time 8 Seconds
(without alignments)
412.820 Million cell updates/sec

Title: US-09-914-454B-31

Perfect score: 2340

Sequence: 1 MKKYLFRALYGIARAAILAA.....KTTGVVQLLPNGMKPEYRP 441

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 57103 seqs, 7488799 residues

Total number of hits satisfying chosen parameters: 57103

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications AA New:

- 1: /cgn2_6/ptodata/1/pubpaa/US08 NEW PUB.pap.*
- 2: /cgn2_6/ptodata/1/pubpaa/US06 NEW PUB.pap.*
- 3: /cgn2_6/ptodata/1/pubpaa/US07 NEW PUB.pap.*
- 4: /cgn2_6/ptodata/1/pubpaa/PTC NEW PUB.pap.*
- 5: /cgn2_6/ptodata/1/pubpaa/US09 NEW PUB.pap.*
- 6: /cgn2_6/ptodata/1/pubpaa/US10 NEW PUB.pap.*
- 7: /cgn2_6/ptodata/1/pubpaa/US11 NEW PUB.pap.*
- 8: /cgn2_6/ptodata/1/pubpaa/US60 NEW PUB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2257	96.5	468	US-10-467-657-776	Sequence 776, Appl
2	94	4.0	503	US-10-793-626-1810	Sequence 1810, Ap
3	94	4.0	576	US-10-512-184-65	Sequence 65, Appl
4	94	4.0	625	US-10-512-184-47	Sequence 47, Appl
5	92	3.9	473	US-10-467-657-8108	Sequence 8108, Ap
6	90.5	3.9	1389	US-10-467-657-334	Sequence 334, Appl
7	89.5	3.8	7102	US-11-143-980-48	Sequence 48, Appl
8	86	3.7	1572	US-10-793-626-2906	Sequence 2906, Ap
9	85	3.6	808	US-11-110-082-38	Sequence 38, Appl
10	83.5	3.6	331	US-10-878-556A-45	Sequence 45, Appl
11	83.5	3.6	569	US-10-512-184-66	Sequence 66, Appl
12	83.5	3.6	618	US-10-512-184-48	Sequence 48, Appl
13	83	3.5	910	US-10-131-826A-112	Sequence 112, Appl
14	81.5	3.5	409	US-11-055-822-290	Sequence 290, Appl
15	81	3.5	534	US-11-082-389-348	Sequence 348, Appl
16	81	3.5	607	US-11-096-051-14	Sequence 14, Appl
17	81	3.5	2376	US-11-096-051-4	Sequence 4, Appl
18	81	3.5	2715	US-11-096-051-2	Sequence 2, Appl
19	81	3.5	2715	US-11-113-424-51	Sequence 51, Appl
20	81	3.5	2721	US-11-096-051-10	Sequence 10, Appl
21	81	3.5	2725	US-11-096-051-8	Sequence 8, Appl
22	79.5	3.4	1565	US-10-467-657-1784	Sequence 1784, Ap
23	78	3.3	392	US-10-467-657-1784	Sequence 1784, Ap
24	78	3.3	520	US-10-131-826A-144	Sequence 144, Appl
25	78	3.3	1394	US-10-467-657-7930	Sequence 7930, Ap

26	78	3.3	5712	7	US-11-143-980-47	Sequence 47, Appl
27	77.5	3.3	400	6	US-10-793-626-2774	Sequence 2774, Ap
28	77.5	3.3	529	6	US-10-858-730-104	Sequence 104, Appl
29	77.5	3.3	529	6	US-10-858-730-105	Sequence 105, Appl
30	77.5	3.3	2657	6	US-10-821-234-1262	Sequence 1262, Ap
31	76.5	3.3	287	6	US-10-467-657-5866	Sequence 5866, Ap
32	76.5	3.3	745	6	US-10-131-826A-68	Sequence 37, Appl
33	76.5	3.3	745	7	US-11-135-855-37	Sequence 37, Appl
34	76	3.2	372	6	US-10-793-626-1632	Sequence 1632, Ap
35	76	3.2	1006	6	US-10-467-657-8400	Sequence 8400, Ap
36	76	3.2	1263	6	US-10-485-517-127	Sequence 127, Appl
37	76	3.2	1394	7	US-11-115-639-52	Sequence 52, Appl
38	76	3.2	1394	7	US-11-115-639-53	Sequence 53, Appl
39	76	3.2	1394	7	US-11-115-639-54	Sequence 54, Appl
40	76	3.2	1394	7	US-11-115-639-55	Sequence 55, Appl
41	75.5	3.2	219	7	US-11-170-653-29	Sequence 29, Appl
42	75.5	3.2	405	6	US-10-467-657-2310	Sequence 2310, Ap
43	75.5	3.2	423	7	US-11-055-822-258	Sequence 258, Ap
44	75.5	3.2	457	6	US-10-467-657-5134	Sequence 5134, Ap
45	75.5	3.2	782	6	US-10-821-234-1592	Sequence 1592, Ap

ALIGNMENTS

RESULT 1
US-10-467-657-776
; Sequence 776, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON Spa
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 776
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-776

Query Match : 96.5%; Score 2257; DB 6; Length 468;
Best Local Similarity 95.7%; Pred. No. 2.3e-190;
Matches 422; Conservative 9; Mismatches 10; Indels 0; Gaps 0;

QY 1 MKKYLFRALYGIARAAILAACQSKSIQTFPPDTSVINGDRPVGIPDPAGTTVGGGAV 60
Db MKKHLRLSALYGIARAAILAACQSKSIQTFPPDTSVINGDRPVGIPDPAGTTVGGGAV 87
QY 61 YTVVPHLSLPHWAAQDFAKSLQSPRLGCANLKNRQWQDVCAQAFQTPVHSFOAKQFFER 120
Db YTVVPHLSLPHWAAQDFAKSLQSPRLGCANLKNRQWQDVCAQAFQTPVHSFOAKQFFER 147
QY 121 YFTPMQVAGNSLAGTGTGTYEPVLKGDRTAQAARFIYIGIPDDFISVPLPAGLRSGKA 180
Db YFTPMQVAGNSLAGTGTGTYEPVLKGDRTAQAARFIYIGIPDDFISVPLPAGLRSGKN 207
QY 181 LVRIRQTKNSGTIDNTCGTHTADLSRPIITARTTAIKGRFEGSRFLPVHTNQINGGAL 240
Db LVRIRQTKNSGTIDNTCGTHTADLSRPIITARTTAIKGRFEGSRFLPVHTNQINGGAL 267
QY 241 DGKAPILGYAEDPVELPFPMHIQSGRLKTPSGKYIRIGYADKNEHPYVSIGRYMDKGYL 300
Db DGKAPILGYAEDPVELPFPMHIQSGRLKTPSGKYIRIGYADKNEHPYVSIGRYMDKGYL 327

Qy 301 KLGQTSQGIKSYNRQNPORLAELVGLQNPYSIFFRELAGSSNDGPGVGLGTPPLMGEYAGA 360
Db 328 KLGQTSQGIKSYNRQNPORLAELVGLQNPYSIFFRELAGSSNDGPGVGLGTPPLMGEYAGA 387
Qy 361 VDRHYITLGAFLPVATAPVTRKALNRLIMAQDTGSAIDGAVRVYDFWGYGDEAGELAGK 420
Db 388 IDRYHITLGAFLPVATAPVTRKALNRLIMAQDTGSAIDGAVRVYDFWGYGDEAGELAGK 447
Qy 421 QKTTGYVWQLLPNGMKPEYRP 441
Db 448 QKTTGYVWQLLPNGMKPEYRP 468

RESULT 2
US-10-793-626-1810
; Sequence 1810, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; NUMBER OF SEQ ID NOS: 199-11-09
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1810
; LENGTH: 503
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1810

Query Match 4.0%; Score 94; DB 6; Length 503;
Best Local Similarity 20.2%; Pred. No. 0.85;
Matches 76; Conservative 47; Mismatches 128; Indels 126; Gaps 17;
Qy 137 VTGYEYVPLKGGD-RRTAQ-ARFPI- - - - -YCIPOD- - - - - 165
Db 75 ILGPYEEISEGDEVKRTGRIMEVPGVEEMIGRVNPLGQPIDGQPINATKTRPVEKKAT 134
Qy 166 - - - - -FISVPLPAGLSKGLVRI- - - - -ROTGNSGTIDNTGTHAD- - - - -LS 206
Db 135 GVMDRKSVDPLQTIKALDVLPIGRQRELIIGDRTGKTVAIDSLNKQDQDTICI 194
Qy 207 RPPITARTAIKRGESRFLPYHTRNQINGALDGGKAPILGYAEDPVVELPFMHIOQS- - 264
Db 195 YVAIGQKDSVTRANVEKLR- - - - -QAGALDYTTIVWSAASADPAPLLYIAPYSGVT 244
Qy 265 -GLKTPSGKIRIGYADKNEHPYVSYIGRYMADKGLKLGOTSMQGIKSYNRQNPORLAEL 323
Db 245 MGEFPMGKHVLIYDD- - - - -LTKQAAAYRELSLLLRPPGREA- 285
Qy 324 VLQGNPSYIFF- - - - -RELAGSSND- - - - -GPGVGLGTPLMGEYAGAVDRH- - - - - 364
Db 286 - - - - -YPGDVFFYLHSLRLLERAALNDLGGSGITAL- - - - -PIETQAGDISAYVPTNVISITD 339
Qy 365 -YITLGAFLPVATAPVTRKALNRLIMAQDTGSA- - - - -IDGAVRVY- - - - -FW 408
Db 340 QGIFLQSLDFFSGVRPAINAGQS- - - - -VSRVGSQAQKAMKKGAVAGTGLRLDLSAYRELESFA 396
Qy 409 GYGEAGELAGKQKTTG 425
Db 397 QFGSLDEFTAKKLARG 413

RESULT 3
US-10-512-184-65
; Sequence 65, Application US/10512184
; Publication No. US20050244901A1

; GENERAL INFORMATION:
; APPLICANT: Fraunhofer Gesellschaft zur Forderung der angewandten Forschung e.V.
; TITLE OF INVENTION: Antibodies, recombinant antibodies, recombinant
; TITLE OF INVENTION: antibody fragments and fusions mediated plant disease
; TITLE OF INVENTION: resistance against fungi
; FILE REFERENCE: 3581.01US01
; CURRENT APPLICATION NUMBER: US/10/512,184
; CURRENT FILING DATE: 2004-10-22
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 65
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: precursor
; OTHER INFORMATION: fusion protein comprising chitinase - linker -
; OTHER INFORMATION: scfv CWPD2.
US-10-512-184-65

Query Match 4.0%; Score 94; DB 6; Length 576;
Best Local Similarity 19.8%; Pred. No. 1;
Matches 102; Conservative 50; Mismatches 156; Indels 206; Gaps 26;
Qy 21 CQSKSIQTFPPQDPTSVINGPDRPVGIPDPAGTTVGGGAVYT- - - - -VPHLSLPHWAA 74
Db 36 CQSQ- - - - -CNGCGGGGTVPVPTPTG- - - - -GGVSSIIQSLSLFDQMLLHRNDAAQCA 83
Qy 75 QDF- - - - -AKSLQSP-RLGCANLKNRQ- - - - -GW- - - - - 97
Db 84 KGFTNYGAFVAAANSFSGFATGTGGADVRKREVAFLAQTHSHETGGTAPDGPYSWGVC 143
Qy 98 - - - - -QDVCAQAFQTPVHVSFOAKOFFERYFFPQWVAGN- - - - -GSLAGT- - - - - 136
Db 144 FQERGAASDYCSPNSQWP- - - - -CAPGKYFGR- - - - -GPIQISYNYNGPAGRAIGTDLNNPD 199
Qy 137 - - - - -VTGYEYVPLKGGD-RRTRTAQARPIIYIGIPDDF 166
Db 200 LVATDATVSKTALWFMTQSPKPSHSDVITGRWSP- - - - -SGADQ- - - - -AAGRVPGYGVITNI 255
Qy 167 ISVPLPAGLSKGLVRI- - - - -ROTGNSGTIDNTGTHADLSRFPITARTAIKRGESR 226
Db 256 IN- - - - -GGLGCR- - - - -GQDGRVADRIG- - - - -FYKYCDLGLVSYGDNL 292
Qy 227 LPYHTRN-QINGGALDGKAPILGYAEDPVVELPFMHIOQSGRLKTPSGKYIRIGYADKNEH 285
Db 293 DCTNQRPPAVDGGGGGG- - - - -GSAAPAMAAVTLDESGLGQTPGG- - - - - 336
Qy 286 PYVSYGRYMAKXGVLKLGOTSMQGIKSYNRQNPORLAELVGLQNPYSIFFRELAGSSNDGP 345
Db 337 - - - - -GLSLVCKG- - - - -SGDFPSDITMWRQAPGKGLF- - - - -VAGISGDS 376
Qy 346 VGALGTPLMGEYAGAVDRHYITLGAFLPVATAPVTRKALNRLIMAQDTG- - - - - 396
Db 377 DNTYGSVAKGRATISRDNGQSTV- - - - -RLQLNLL-RAEDTATYCTRGPCS 422
Qy 397 - - - - -AIDGAVRVYDFWGYGDEAGELAGKQKTTG 425
Db 423 PTKNCAAD- - - - -RID-ANGHGTETVSSGSGSG 452

RESULT 4
US-10-512-184-47
; Sequence 47, Application US/10512184
; Publication No. US20050244901A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer Gesellschaft zur Forderung der angewandten Forschung e.V.
; TITLE OF INVENTION: Antibodies, recombinant antibodies, recombinant
; TITLE OF INVENTION: antibody fragments and fusions mediated plant disease
; TITLE OF INVENTION: resistance against fungi
; FILE REFERENCE: 3581.01US01
; CURRENT APPLICATION NUMBER: US/10/512,184
; CURRENT FILING DATE: 2004-10-22

;; PRIOR APPLICATION NUMBER: 60/563,723
;; PRIOR FILING DATE: 2004-04-20
;; PRIOR APPLICATION NUMBER: 10/655,799
;; PRIOR FILING DATE: 2003-09-05
;; PRIOR APPLICATION NUMBER: 60/408,782
;; PRIOR FILING DATE: 2002-09-05
;; NUMBER OF SEQ ID NOS: 40
;; SOFTWARE: PaetSeq for Windows Version 4.0
;; SEQ ID NO 38
;; LENGTH: 808
;; TYPE: PRT
;; ORGANISM: Festuca arundinacea
US-11-110-082-38

Query Match 3.6%; Score 85; DB 7; Length 808;
Best Local Similarity 21.1%; Pred. No. 10;
Matches 87; Conservative 54; Mismatches 166; Indels 106; Gaps 23;
QY 22 QSKSIQTTPQDTSVINGPDRP-----VGIPDPAGTTVGGGAVYTVVPHL----- 67
DB 175 QOOLSQQFPQIQSQGVIPQQLRLPLAQPGWQLAGVPTPVESGLCSRLMQYLFHR 234
QY 68 -----SLPHWAA---QDFAKSLQSFRLGCAKLNKRGQWDVCAQAFQ---TPVHSFOA 114
DB 235 HRPEDNPITYWRKLIDEYFAP-----RAREW---CVSSYKRGNSPVAIPQT 279
QY 115 KQFFERYTPQOV-----AGNGLAGTTVGYEVLKGGDRRTAQAAPPIYIPDDFIS 168
DB 280 SQ-----DWRCDICNTHAGKHEA-----TYEIL-----PRLCQIRFD-QGVIDEYLF 322
QY 169 VPLPAGLSGKALVRIOTGKNSGT-DNTGGTHTADLSRPETARTTAIKRPGSRPL 227
DB 323 LDMPEFLPLNGLLEHTKVQKSIYDHLVTHGQL-RIIFTEPKIMSWEPSCSRHD 381
QY 228 PYHTRN-----QTN-----GGALDGKAPILGYAEDPVELFFMHIIQSGRLKTPSGKY 274
DB 382 EYITERELTPQVNHMLQVAQYQAANESGPAGVSNDDAQAICSMFVSARQLAK----- 436
QY 275 IRIGVADKNEH-----PYV-----SIGRYMAD-----KGYLKGQTSMOGKISYMRQ-NPQ 319
DB 437 -NLDHHSLSNEHGLSKRYVCLQISEVNVNMDLIEFHSKNLG--PIEGLKNYPRQTGPK 493
QY 320 RLAEVLGQNPSYIFRELAGSNDGP-VGALGTPLMGVAGAVDRHYITLGNP 371
DB 494 LTTQNHDAKGVVKTTEETHVNEGPDAGPAGS---SPONAGAQNYYQNMLRSP 544

RESULT 10
US-10-878-556A-45
;; Sequence 45, Application US/10878556A
;; Publication No. US20050266399A1
;; GENERAL INFORMATION:
;; APPLICANT: Hoffmann La-Roche Inc.
;; TITLE OF INVENTION: HCV regulated protein expression
;; FILE REFERENCE: 21762
;; CURRENT APPLICATION NUMBER: US/10/878,556A
;; CURRENT FILING DATE: 2004-06-28
;; NUMBER OF SEQ ID NOS: 199
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 45
;; LENGTH: 331
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; PUBLICATION INFORMATION:
;; DATABASE ACCESSION NUMBER: sw hum/ldha_human
;; DATABASE ENTRY DATE: 1986-07-21
US-10-878-556A-45

Query Match 3.6%; Score 83.5; DB 6; Length 331;
Best Local Similarity 23.9%; Pred. No. 4;
Matches 33; Conservative 26; Mismatches 62; Indels 17; Gaps 6;
QY 68 SLPHWAAQDPA-KSLQSFRLGCAKLNKRGQWDVCAQAFQTPVHSFOAKQFFERYTPWQ 126

DB 196 SVPWSGNNAVAGSLKTLHPDLGTDKQKQWKEVHKQVVSAYEVIKLG-----YTSW- 249
QY 127 VAGNGLAGTTVGYEVLKGGDRRTAQAAPPI---YGIPDD-FISVPLPAGLSGKALV 182
DB 250 -----AIGLSVADLAESIMK-NLRRVHPVSTMIGLYGKDDVFLSVPCILGQNGISDLV 303
QY 183 RIOTGKNSGTIDNTGGT 200
DB 304 KVTLTSEEARLKKSADT 321
RESULT 11
US-10-512-184-66
;; Sequence 66, Application US/10512184
;; Publication No. US20050244901A1
;; GENERAL INFORMATION:
;; APPLICANT: Fraunhofer Gesellschaft zur F"orderung der angewandten Forschung e.V.
;; TITLE OF INVENTION: Antibodies, recombinant antibodies, recombinant
;; TITLE OF INVENTION: antibody fragments and fusions mediated plant disease
;; TITLE OF INVENTION: resistance against fungi
;; FILE REFERENCE: 3581.01US01
;; CURRENT APPLICATION NUMBER: US/10/512,184
;; CURRENT FILING DATE: 2004-10-22
;; NUMBER OF SEQ ID NOS: 72
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 66
;; LENGTH: 569
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: precursor
;; OTHER INFORMATION: fusion protein comprising chitinase - linker -
;; OTHER INFORMATION: scFv VD2.
US-10-512-184-66

Query Match 3.6%; Score 83.5; DB 6; Length 569;
Best Local Similarity 18.8%; Pred. No. 8.4;
Matches 91; Conservative 48; Mismatches 157; Indels 189; Gaps 23;
QY 21 CQSKIQTTPQDTSVINGPDRPVGIPDPAGTTVGGGAVYTVVPHLSPHMAA 74
DB 36 CQSQ-----CNGCSGGGTVPVPTGTG---GGVSSIIISQSLFDQMLLRNDAAQCA 83
QY 75 QDP-----AKSLQSF-RLGCANLNKRG-----GW----- 97
DB 84 KGFYNYGAFVAAANSPSGFATTGGADVRKREVAAPLAQTSHETGGWPTAPDGPYSWGYC 143
QY 98 -----QDYCAQAFQTPVHSFOAKQFFERYTPWQVAGN-----GSLAGT----- 136
DB 144 FNOBRGAADYCSNPSQMP--CAPGKKYFGR--GPIQISYNYNYGPGAGRAIGTDLNNPD 199
QY 137 -----VTGYEVLKGGDRRTAQAAPPIYIPDDF 166
DB 200 LVATDAVSPKTAFLWMTPOSKPSSHDVTGRWSP--SGADQ--AAGRVPYGVITNI 255
QY 167 ISVPLPAGLSGKALVRIOTGKNSGTIDNTGGTHTADLSRPETARTTAIKRPGSRF 226
DB 256 IN-----GGLECGR-----GQDGRVADRIG-----FVKRYCDLLGVSYGDNL 292
QY 227 LPYHTRN-QINGGALDGKAPILGYAEDPVELFFMHIIQSGRLKTPSGKYIRIG----- 278
DB 293 DCYNORPFAVDGGGGGGG---GSAAPAMAAQIQLVQSGPGLKKP-GETVKSICKVSGDN 348
QY 279 -----YADKNEHPYVVSIGRYMADKGYLKLQGTSM 307
DB 349 PTNYGMQWVKAQPGKGLKMWGWINTYTGEATYADDKGRFAPFSLTASTAYLQINLNKN 408
QY 308 QGKISYMRQNPQRLAEVLGQNPSYIFRELAGSNDGPVAGLGTPLMGEYAGAVDRHYIT 367
DB 409 EDTATYF-----CARFLG-NPYIVM--DYNGQGTSTVTSAGGGGGGGGGSDVLM 459
QY 368 LGAPL 372

Db 736 -----GYSLEGAAMLTCSRDTGTF-----KWSDRVKCALKYECPLNPGVPENGQ 782
Qy 281 DKNEHPYVIG---RYMADKGYLKGOTSMQIKSYMRQ-----NPDRLAE 323
Db 783 TLYKHHY-OAGSLRFFCYEGPELIGEVITTCVPGHPSQWTSQPPLCKVTQTTPSRQLE 841
Qy 324 -----VLQONPSYIFFRELAGSSNDGPPVGA 348
Db 842 GGNLALAILPLGLVILVLSG-VIYYTYKLQKSLFGFSGS 881

RESULT 14

US-11-055-822-290
; Sequence 290, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
; FILE REFERENCE: BGI-121CPN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 290
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-055-822-290

Query Match 3.5%; Score 81.5; DB 7; Length 409;
Best Local Similarity 22.8%; Pred. No. 8;
Matches 97; Conservative 39; Mismatches 136; Indels 153; Gaps 27;
Qy 137 VTGYEYVPLKGDRTAQRPIYIPD--DFISVPLPAGLR-----SGKALVRIQTKG 189
Db 4 VTGL--PVTPYSQEASIGASFPADV-PDTKSAAYCHESGHRERISNAKRVVKI---GS 57
Qy 190 NSGTTDNGTHTADLSRPTTARTATKGRFE-GSRFLPYHTRNQINGALDGKAPILG 248
Db 58 SSLTNDDEG--HTVDPNR--INTIVNALQARMEAGSDLIIVS-----SGVAAGMAP-LG 107
Qy 249 YAEDPVEL-----PFMHQGS--GELKTPSGKYIRIGYADKNEHPYVYISGYM 294
Db 108 LSTRTELAVQAAAAGVQVHLHMQWGRSFARYGRPIQO-VLLTAADAGK-----RDR 159
Qy 295 ADKGYLKGOTSMQIKSYMRQNP-----QRLAEVLQO----- 327
Db 160 ARNAQRTIDKRLGAVPIVNEVDVATVGVNFGDNDRLAALVAHLVSADALVLLSDVDG 219

Qy 328 -----NPSYIPFRELAGSSND-----GPVGALCTPLMGEYAGAVDRHYITIGAPLPV 374
Db 220 LFDKNPTDPTAKFTSEVR-DGNDLKGVTAGDGGKVGTTGGMASKVSAA-RLASRSGVPVLL 277
Qy 375 ATA-----HPVTRKALNRL-----HMAQDTGSAI---DGAVRVDYFW 408
Db 278 TSAANIGPALEDAQGVTFHPKD-----NRLSAWKFALYAADTAGKIRLDDGAVEAVTSG 333
Qy 409 G-----YGD-----BAGELAGK-----QKTTYGVWQLLPNGMK 436
Db 334 GKSLAVGITEIIGDFQOGEIVELGPAGQIIGRGEVSYDSDTLQSMVGMQTDLPDGMQ 393
Qy 437 PEYRP 441
Db 394 ---RP 395

RESULT 15

US-11-082-389-348
; Sequence 348, Application US/11082389
; Publication No. US20050244935A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; FILE REFERENCE: BGI-131CPN
; CURRENT APPLICATION NUMBER: US/11/082,389
; CURRENT FILING DATE: 2005-03-16
; PRIOR APPLICATION NUMBER: US 09/603024
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 60/143262
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: US 60/151281
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19930487.4
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19930489.0
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931549.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931550.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932134.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 446
; SEQ ID NO 348
; LENGTH: 534
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-082-389-348

Query Match 3.5%; Score 81; DB 7; Length 534;
Best Local Similarity 19.7%; Pred. No. 13;
Matches 102; Conservative 64; Mismatches 169; Indels 184; Gaps 30;
Qy 14 AAAT---LAACQSKSIQTFQPDTS-----VING--PDRPVGIPDPAGTIVG 55
Db 12 AALALSLAACSSDS-----SSDSSSSSGEGDNYLVNGTFQNPPL---VFGNTNEV 63
Qy 56 GGG-----AVTVVPHLSLPHWAAQDFAKSLQ-----SFRLCANLKNRQGHODVCAQAFQ 106
Db 64 GGGRVIVSISGLVYVDGSPVNDVAESIELEGDKTYRI---TIKGGQTFD-----G 114

```
Qy 107 TPVHSFOAKQFFERYFTTQVQV-AGNGSLAG-----TVTGYBEPV--LKG-----DDR----- 150
Db 115 TPVTA-----ESFVNAMNVMANSTLSSYFFESILGYBEGVSMELGLQVVDVDTTFIVE 167
Qy 151 -RTAQARPP-YGTPDDFISVPLPAGLBSGKALVRIOTGKX-----SGTIDNTGTHHTADL 205
Db 168 LTQPESDPFLRLGYSAFP--PLPE-----SAFDDMDAFGENPIGNGPYKLQENHNQDA 219
Qy 206 SRPFTARTTAIKGRFESRPLPHYTRNQINGGALDGGKAPILGYAEDPVELFFMHIOQSG 265
Db 220 TIVNADYTGROQANDGVKFIPTPDSAVADLLSDNLVDLDAIPASPFSEDELISGR 279
Qy 266 RLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYLK-----LGQTSMQGKIS- 312
Db 280 SINOPSVAVFQSTTIPESLEH-----PSGEGVLRQALSLAVNRDEITQTIFEGRTP 332
Qy 313 -----YMRQNPQRLAEVLQGNPSYIFPRLAGSSNDGPVGLGTP 352
Db 333 ATDPTSPVIDGHSLOQADVLTYPDRAQLWAQADEI-----SP 373
Qy 353 LMGEYA---GAVDRHYI-----TLGA-----PLFVATAHPVTRKALNRLIMA 391
Db 374 WSGEFSISYNADGGHQAWDATANSIRNTLIGIDAIGNPYDPFKSLRDDVTRTIN----- 428
Qy 392 QDTGSAIDGAVR-----VDY-----FWG--YGDEAGELAG 419
Db 429 -----GAPRTGWQADYPSLGNFLGLPYGTGAGSNDG 459
```

RESULT 16

```
US-11-096-051-14
; Sequence 14, Application US/11096051
; Publication No. US20050244868A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Rameesh
; APPLICANT: MacLachlan, Timothy K
; APPLICANT: Rastelli, Luca
; APPLICANT: Vernet, Corine
; APPLICANT: Ettenberg, Seth
; TITLE OF INVENTION: Ten-M3 Polypeptides and Polynucleotides and their Methods of Use
; FILE REFERENCE: Attorney Docket No. Cura 967
; CURRENT APPLICATION NUMBER: US/11/096,051
; CURRENT FILING DATE: 2005-03-30
; PRIOR APPLICATION NUMBER: 10/038,854
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 10/455,772
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/557,978
; PRIOR FILING DATE: 2004-03-30
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 14
; LENGTH: 607
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-096-051-14
```

```
Query Match 3.5%; Score 81; DB 7; Length 607;
Best Local Similarity 19.4%; Pred. No. 15;
Matches 92; Conservative 50; Mismatches 137; Indels 196; Gaps 27;
```

```
Qy 81 LQSFRLGCANLKNRQGW---QDVCAQAFQTPVHSFOAKQFFER-----YFTPWQV 127
Db 47 LQS---SCQNPYCRGLPDQDIIISQSLQSPSQ-AAKSFYDRISFLIGSDSTHVIAGES 102
Qy 128 AGNSLAGTGTGYEYPVLKGDRTTAQARFPYIGIPDDFISVPLPAGLRSGKALVRIRQT 187
Db 103 PFNKLASVIRG---QVLTADGT-----PLIGVNSFFHYF-----EYGYTITR----- 143
Qy 188 GKNSGTID--NTGGTHTADLSRFPITARTTAIKGRFEGSRPL-PYHT----- 231
Db 144 --QDGMFDLVANGG-----ASLTLV-----FERSPFLTYHTWIPWNVFYVMDT 186
```

```
Qy 232 -----RNOINGGALDG---KAPILGYAEDPVELFF-----MHIOQSGRL 267
Db 187 LVKKKENDIPSCDLSGFVRPNPII--VSSPLSTFFFRSSPEDSPIIPETQVLHEE----- 239
Qy 268 KTPSGKYIRIGYADKNEHPVVSIGRYMADKGYLKQTSMQGKISYMRQNPQRLAEVLGQ 327
Db 240 TTIPGTDLKL SylSSRAAGYKSV-----LKI--TMTQSIIPFNLKMKVHLMVAVVGR 288
Qy 328 -----NPSYIPFRELAGSSNDGPVG-----ALG-----TPLWGE 356
Db 289 LFOKMFPPASPNLAYTTFIWDKTDAYNQKYGLSANVSVGYEYESCLDLTLWEKRTAILQ 348
Qy 357 Y-----AGAVDRHYIT-----LGAPLFVATAHPVT-----RKAL----- 385
Db 349 YELDASNMGGWTLDKHHVLDVQNGILYKNGENQFISQPPVSVSSIMNGRERSISCPCSC 408
Qy 386 -----NRLIMAQDTGSAIDGAVRVDPYFWGYGDEAGELAGKQKTTGYVWQLLPNG 434
Db 409 NGQADGNKLLAPVALACGIDGSLYVGDF-----NYVRIFFPSG 446
```

RESULT 17

```
US-11-096-051-4
; Sequence 4, Application US/11096051
; Publication No. US20050244868A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Rameesh
; APPLICANT: MacLachlan, Timothy K
; APPLICANT: Rastelli, Luca
; APPLICANT: Vernet, Corine
; APPLICANT: Ettenberg, Seth
; TITLE OF INVENTION: Ten-M3 Polypeptides and Polynucleotides and their Methods of Use
; FILE REFERENCE: Attorney Docket No. Cura 967
; CURRENT APPLICATION NUMBER: US/11/096,051
; CURRENT FILING DATE: 2005-03-30
; PRIOR APPLICATION NUMBER: 10/038,854
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 10/455,772
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/557,978
; PRIOR FILING DATE: 2004-03-30
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 4
; LENGTH: 2376
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-096-051-4
```

```
Query Match 3.5%; Score 81; DB 7; Length 2376;
Best Local Similarity 19.4%; Pred. No. 1e+02;
Matches 92; Conservative 50; Mismatches 137; Indels 196; Gaps 27;
```

```
Qy 81 LQSFRLGCANLKNRQGW---QDVCAQAFQTPVHSFOAKQFFER-----YFTPWQV 127
Db 472 LQS---SCQNPYCRGLPDQDIIISQSLQSPSQ-AAKSFYDRISFLIGSDSTHVIAGES 527
Qy 128 AGNSLAGTGTGYEYPVLKGDRTTAQARFPYIGIPDDFISVPLPAGLRSGKALVRIRQT 187
Db 528 PFNKLASVIRG---QVLTADGT-----PLIGVNSFFHYF-----EYGYTITR----- 568
Qy 188 GKNSGTID--NTGGTHTADLSRFPITARTTAIKGRFEGSRPL-PYHT----- 231
Db 569 --QDGMFDLVANGG-----ASLTLV-----FERSPFLTYHTWIPWNVFYVMDT 611
Qy 232 -----RNOINGGALDG---KAPILGYAEDPVELFF-----MHIOQSGRL 267
Db 612 LVKKKENDIPSCDLSGFVRPNPII--VSSPLSTFFFRSSPEDSPIIPETQVLHEE----- 664
Qy 268 KTPSGKYIRIGYADKNEHPVVSIGRYMADKGYLKQTSMQGKISYMRQNPQRLAEVLGQ 327
Db 665 TTIPGTDLKL SylSSRAAGYKSV-----LKI--TMTQSIIPFNLKMKVHLMVAVVGR 713
```

QY 328 -----NPSYIFFRRELAGSNDGPVG-----ALG-----TPLMGE 356
Db 714 LFQKFPASPNIAYTFIWDKTDAYNQKVGLSEAVSVGYEYESCLDLTLWEKRTAILQG 773
QY 357 Y-----AGAVDRHYIT-----LGAPLFVATAHPVT-----RKAL----- 385
Db 774 YELDASNMGWTLDRKHVLDVQNGILYKNGENQFISQPPVSVSSIMGNRRRSISCPSC 833
QY 386 -----NRLMAQDTGSAIDGAVRVDFYFWGYGDEAGELAGKQKTTGYVWQLLPNG 434
Db 834 NQADGNKLLAPVALACGIDGSLYVGDF-----NYVRRIFPSG 871

RESULT 18
US-11-096-051-2
; Sequence 2, Application US/11096051
; Publication No. US20050244868A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: MacLachlan, Timothy K
; APPLICANT: Rastelli, Luca
; APPLICANT: Vernet, Corine
; APPLICANT: Ethenberg, Seth
; TITLE OF INVENTION: Ten-M3 Polypeptides and Polynucleotides and their Methods of Use
; FILE REFERENCE: Attorney Docket No. Cura 967
; CURRENT APPLICATION NUMBER: US/11/096,051
; CURRENT FILING DATE: 2005-03-30
; PRIOR APPLICATION NUMBER: 10/038,854
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 10/455,772
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/557,978
; PRIOR FILING DATE: 2004-03-30
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 2
; LENGTH: 2715
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-096-051-2

Query Match 3.5%; Score 81; DB 7; Length 2715;
Best Local Similarity 19.4%; Pred. No. 1.2e+02;
Matches 92; Conservative 50; Mismatches 137; Indels 196; Gaps 27;

QY 81 LQSFRLGCANLKNRQGW---QDVCAQAFQTPVHSFOAKQFFER-----YFTPMQV 127
Db 811 LQS-----SQONQPYCRGLPDPQDIISQSLQSPSQ--AAKSFYDRISFLIGSDSTHVLPGES 866
QY 128 AGNGLAGTVTYGYPEVLKGDRTAQAARFPIYGIPDDFISVPLPAGLRSKALVRIQRT 187
Db 867 PFNKLASVIRG---QVLTADGT-----PLIGNVVSFFHYF-----EYGYTITR----- 907
QY 188 GKNSTIDNTGCTHTADLSRFPITARTTAIKGFEGSRFL--PVHT----- 231
Db 908 ---QDGNFIDLVANGG-----ASLTLV---FERSPPLTQYHTVWIPNWFVYMDT 950
QY 232 -----RNQINGGALDG---KAPILGYAEDPVELFF-----MHIQSGRL 267
Db 951 LVMKKEENDIPSCDLSGFRPNPFI--VSSPLSTFFRSPEDSPIPETQVLHEE----- 1003
QY 268 KTPSKYIRIGYADKNEHPYVIGRYMADKGYLKGQTSMQGIKSYMQRNQRQRLAEVLQG 327
Db 1004 TPIPTGDLKLSYLSSRAAGYKSV-----LKI--TWTQSIIPFNLMKVLHVAVVGVR 1052
QY 328 -----NPSYIFFRRELAGSNDGPVG-----ALG-----TPLMGE 356
Db 1053 LFQKFPASPNIAYTFIWDKTDAYNQKVGLSEAVSVGYEYESCLDLTLWEKRTAILQG 1112
QY 357 Y-----AGAVDRHYIT-----LGAPLFVATAHPVT-----RKAL----- 385
Db 1113 YELDASNMGWTLDRKHVLDVQNGILYKNGENQFISQPPVSVSSIMGNRRRSISCPSC 1172

QY 386 -----NRLMAQDTGSAIDGAVRVDFYFWGYGDEAGELAGKQKTTGYVWQLLPNG 434
Db 1173 NQADGNKLLAPVALACGIDGSLYVGDF-----NYVRRIFPSG 1210

RESULT 19
US-11-113-424-51
; Sequence 51, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 2715
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-113-424-51

Query Match 3.5%; Score 81; DB 7; Length 2715;
Best Local Similarity 18.7%; Pred. No. 1.2e+02;
Matches 89; Conservative 49; Mismatches 140; Indels 198; Gaps 23;

QY 81 LQSFRLGCANLKNRQGW---QDVCAQAFQTPVHSFOAKQFFER-----YFTPMQV 127
Db 811 LQS-----SQONQPYCRGLPDPQDIISQSLQSPSQ--AAKSFYDRISFLIGSDSTHVLPGES 866
QY 128 AGNGLAGTVTYGYPEVLKGDRTAQAARFPIYGIPDDFISVPLPAGLRSKALVRIQRT 187
Db 867 PFNKLASVIRG---QVLTADGT-----PLIGNVVSFLH----- 897
QY 188 GKNSTIDNTGCTHTADLSRFPITARTTAIKGFEGSRFL--PVHT----- 231
Db 898 ---YSEYTYTITROGMPDLVANGASUTLVFERSPPLTQYHTVWIPNWFVYMDT 951
QY 232 -----RNQINGGALDG---KAPILGYAEDPVELFF-----MHIQSGRLK 268
Db 952 VMKKEENDIPSCDLSGFRVPSPII--VSSPLSTFFRSPEDSPIPETQVLHEE-----T 1004
QY 269 TPKSKYIRIGYADKNEHPYVIGRYMADKGYLKGQTSMQGIKSYMQRNQRQRLAEVLQG- 327
Db 1005 TPIPTGDLKLSYLSSRAAGYKSV-----LKI--TWTQAVIPFNLMKVLHVAVVGRL 1053
QY 328 -----NPSYIFFRRELAGSNDGPVG----- 347
Db 1054 FQKFPASPNIAYTFIWDKTDAYNQKVGLSEAVSVGYEYESCLDLTLWEKRTAVLQY 1113
QY 348 ALGTPLMGEYAGAVDRHYIT-----LGAPLFVATAHPVT-----RKAL----- 385
Db 1114 YELDASNMGW---TLDKXHLVDVQNGILYKNGENQFISQPPVSVSSIMGNRRRSISCPSC 1171

; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 2704
; LENGTH: 1565
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1784

Query Match 3.4%; Score 79.5; DB 6; Length 1565;

Best Local Similarity 21.2%; Pred. No. 77;

Matches 87; Conservative 40; Mismatches 140; Indels 143; Gaps 21;

```
Qy 48 DPAGTTVGGGAVYTVVPHLSLPHWAAQDFAKSLQSPRLGCAN---LKNRQG--WQDVC 101
| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 299 DNAGTVKNG-----EH-----HWKTTGTSNHSIGSTAVRLANNEGDANNQNTTFDNG 347
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 102 AAQAFQTPVHSFQAQFFERYFT-----PMQV-----A 128
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 348 TLVLQDQINQAGAGLFFKGDYTVKGANNDITWLGAGIDVADGKVVQVKNPNGDLAKI 407
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 129 GNSLAGTVTVGYEYEVL-----KGDRTAQARFPIYGI-----PDF 166
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 408 GKGTLFNGTGVNOQLKVGDTVLNQKADSNQKVA--FSQVGIVSGRGTVLVNSPDQI 466
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 167 ISVPLPAGLRSGKALVRITQTKNSGTTDNTGGTTADLSRPPIARTATKGRPEGRSF 226
| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 467 NPNNLVFGFRGR-----LDANGNDLTFE-----HNRVDEGARI 501
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 227 LPYTRNNGINGALDKAPILG-----YADPVELFPMHIQSGRLKTPPSGY 274
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 502 VNHNT-DHASITLTGKSLIINPNSLSVHSIQNDYDESNYSYV-----RPRPIQSKD 555
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 275 IRIGVADKNEHPYV-----STGRYADKG-----YKLGOTSMQGIKSYM-RQNPRLA 322
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 556 LYY-----KNRYIYALKSGSVNAPMPENGQTNNDWILMGSTQBEAKKNAMHNKNQRIS 611
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 323 EVLGQNPSPYIFRELAGSNDGPVGCALGTPLMGEYAGVADRHYITLGAFL 372
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 612 GPFG-----PFGENGKGNH---GALNINFGK---SAQNRLTLGGANL 650
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

RESULT 23
US-10-467-657-1784
; Sequence 1784, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON Spa
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 1784
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1784

Query Match 3.3%; Score 78; DB 6; Length 392;
Best Local Similarity 22.4%; Pred. No. 15;

```
Matches 52; Conservative 33; Mismatches 111; Indels 36; Gaps 10;

Qy 169 VPLPAGLRSGKALVRIR-----QTGKNSGTIDNTGGTTADLSRPPIAR---TTAIKGR 220
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 67 VP-PAIDRDYPAKVRVVMETVEKTMKMDGVEYRYWTFDGDVPGRMIRVREGDTVEVEFS 125
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 221 PEGSRFLP-----YHTRNQINGA-----LDGKAPILGVAEDPVELFFMH---IQSGRLKT 269
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 126 NNPSSTVPHNVDFHAATGQGGGAAATFTAPGRTSTFSFKALQPLGLIYIHCAVAPVG-MHI 184
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 270 PSGKYIRIGVADKNEHPYVSGIRYWDKGYLKLQOTSMQGIKSYM-RQNPRQRLAEVLGNP 329
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 185 ANGMVGLLVPEPKGLPKVDKEFYIVQGDFTYTKGKGAQGLQ-----PFMDRAVASQP 238
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Qy 330 SYIFRELAGSNDGPVGCAL-GTPLMGEYAGVADRHYITLGAFLFVATAHPV 380
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 239 EYVVF-----NGHVGAIGADNALKAKAGETVRVTVGVNGGPNLVSFHV 282
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

RESULT 24

US-10-131-826A-144
; Sequence 144, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P330R1C128
; CURRENT APPLICATION NUMBER: US/10/131.826A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 144
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-826A-144


```
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-2774

Query Match          3.3%; Score 77.5; DB 6; Length 400;
Best Local Similarity 20.6%; Pred. No. 17;
Matches 70; Conservative 37; Mismatches 116; Indels 117; Gaps 18;

QY 5 LFRALYGIAAALAAACOS-----KSIQTFFQPDTSVINGPDRPVGIPDPAGTIVGGGAV 60
DB 117 ILRAVIEGTVRLVKKFTDDMLTKITPTIHSLV--PQTLKWLMD-AGLT-----166
QY 61 YTVVPHLSLPHWAADPAKSLQSFRLGCANLKNRQGMQDVCAQAFQTPVH-SPOAKQFFE 119
DB 167 -----QPF--SLEKILGGAKLSPOLIEQ---ALTVRLPVYNSFGMTETCS 207
QY 120 RYFTPWQVANGSLAGTVGYEYEVPLKGDRTAQARPIYIGIPDDFISVPL--PAGLRS 177
DB 208 QFLTA-----SPQMLKERFDITVGRKSENVKIKNPNAVGH 243
QY 178 GKALVRIRQTGN-----SGTIDNTGGTHTADLSRPPIITARTTAIKGRFE----222
DB 244 GELLIK-----GENVWNGLYPKYLKDTFDNDGYFQTDIAIDDEGYVIYDRRKLLIS 299
QY 223 -GSRPLPYHTRNQINGGALD-----GKAPILGYAEDP-----VELF 257
DB 300 GGENIYPV---QIETIAKDFEGIEDAVCVGISDDTWGQVPILYVYVTTQDINQTELIEHF 355
QY 258 FWHIQQSGRLKTPSGKYIRIGYADKNEHPYVSGRYMADK 297
DB 356 ENHL---ARYIKPK-KYQV-----KSLPYTSTGKLQKK 386

RESULT 28
US-10-858-730-104
; Sequence 104, Application US/10858730
; Publication No. US20050255568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; FILE REFERENCE: 14184-030001
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/551,860
; PRIOR FILING DATE: 2004-03-10
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 529
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-858-730-104

Query Match          3.3%; Score 77.5; DB 6; Length 529;
Best Local Similarity 22.2%; Pred. No. 26;
Matches 92; Conservative 35; Mismatches 151; Indels 137; Gaps 20;

QY 56 GGGAV-----YTVVPHLSLPHWAADPAKSLQSFRLGCANLKNRQGMQDVCAQAFQ 106
DB 135 GGVADQAEHAMDDELTERPH-PYRWLA---TAGAAGFALGVAMLG--GTWLTCLVLA 188
QY 107 TP-----VHSFOAKQFFERYF-----TPMQVAGN-----130
DB 189 TSGVIDRLGRLLNRIQTPLFFQRFVFGAGIATLVAAAYLIAGQDPTALVATGIVVLLSGM 248
QY 131 ---GSLAGTVGYEYEVPLKGDRTAQARPIYIGIPDDFISVPLPAGLRSKALVRIRQT 187
DB 249 TLVGSMDQAVTGYMLTAL-----ARLGDALF-----LTAGIVVG-ILISLR--288
QY 188 GKNSGTTIDNTGGTHTADLSRPPIITARTT-AIKGRFEGSRPLPYHTRNQINGALDGKA-P 245
DB 289 -----GVTNAGIQIELHVDATTTLATPG-----MPLFILVAVSAAALSGVCLT 331
QY 246 ILGYAEDPVELFFMHIIQSGRLKTPSGKYIRIGYADKNEHPYVSGRYMADKGYLKLQGT 305
DB 332 IASVAP-----LRSVATAGLSAGLAE-----LVILGLGNAAGFGRVATWT 371
QY 306 SMOGIK-----SYMQRNPQRLAEVLQNPSY-----IPFRELAGSSNDGPVG-----347
DB 372 AAIQGVGFATLISIRROQAPALVTATAGIMPMLPGLAVFRAVFAFVANDTPDGGTLQLEA 431
QY 348 ----ALGT-PLMGEYAGVDRHYITLGAFLVATAHPVTRKALNRLIMAQDTGS 396
DB 432 AATLALGSGVVILGFRFLASPLRYGAGRIGDLFRIEGPPGLRAVGRVVRLOPAKS 486

RESULT 29
US-10-858-730-105
; Sequence 105, Application US/10858730
; Publication No. US20050255568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; FILE REFERENCE: 14184-030001
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/551,860
; PRIOR FILING DATE: 2004-03-10
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 529
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-858-730-105

Query Match          3.3%; Score 77.5; DB 6; Length 529;
Best Local Similarity 22.2%; Pred. No. 26;
Matches 92; Conservative 35; Mismatches 151; Indels 137; Gaps 20;

QY 56 GGGAV-----YTVVPHLSLPHWAADPAKSLQSFRLGCANLKNRQGMQDVCAQAFQ 106
DB 135 GGVADQAEHAMDDELTERPH-PYRWLA---TAGAAGFALGVAMLG--GTWLTCLVLA 188
QY 107 TP-----VHSFOAKQFFERYF-----TPMQVAGN-----130
DB 189 TSGVIDRLGRLLNRIQTPLFFQRFVFGAGIATLVAAAYLIAGQDPTALVATGIVVLLSGM 248
QY 131 ---GSLAGTVGYEYEVPLKGDRTAQARPIYIGIPDDFISVPLPAGLRSKALVRIRQT 187
```

Job time : 12 secs

Db	249	TLVGSMDQAVTGYMLTAL---	ARLGDDALF-----	LTAGIVWG-ILISLR--	288
Qy	188	GKNSGTTDNTGGTHADLSRPIPTARTT-AIKGRPEGSREFLPYHTRNOINGALDGKA-P	245		
Db	289	-----GVTNAGIQIELHVTATTTLATPG-----	MPLPILVAVSGAALSGVGLT	331	
Qy	246	ILGYAEDFVELFFWHIIQSGSRLKTPSGKYIRIGYADKNEHPVVSIGRWADKGYILKLGQT	305		
Db	332	IASYAP-----	LRSVATAGLSAGLAE----	LVLIGLGAAGPGRVVAWT	371
Qy	306	SMQGIK-----	SYMRONPQRLAEVLGNQPSY-----	IFFRELASSNDGPVG-----	347
Db	372	AAIGVGFLATLILSTRQAPALVTATAGIMPLPGLAVFAVFAVNDTTPDGLLTQLLEA	431		
Qy	348	-----ALGT-PLMGEYAGAVDRHYITLGAPLFAVATAHPVTRKALNRLMAQDTGS	396		
Db	432	AATALALGSGVVLGEFLASPLRYGAGRTGDI-FRIEGPPGLSRVAGRVVRLQPAKS	486		

```

RESULT 30
US-10-821-234-1262
; Sequence 1262, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 1262
; LENGTH: 2857
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1262

```

Query Match	3.3%;	Score 77.5;	DB 6;	Length 2657;
Best local Similarity	20.1%;	Pred. No. 2.4e+03;		
Matches 71;	Conservative 39;	Mismatches 101;	Indels 143;	Gaps 17;

QY	135	GTVTGYEYEVPLKG-----	-----DDRRTAQARFPYIGIPDDEFI---	167
DB	1929	GTCVTYKLPILPGDYSILVKNDKHIPGSPPTAKITD	SDRRCQVKL-----GSAADFLLDI	1985
QY	168	-----SVPLPAGLRSGKALVRI-----	-----RQTGKNSGTIDNTGGTHADLS	206
DB	1986	SETDLSSLTASIKAPSGRDEPCLLKLPNNHIGISF	PREVGEHLVSI-KKNGNHVAN--	2042
QY	207	RFPIT-----ARTTAIKR-----	-----FEGSRFLPYHTRNQINGG---	ALDGKAPI 246
DB	2043	-SPVSMVQSEIGDARRAKVYGRGLSEGRTFEMSDFI	-VDTRDAGYGGISLAVEGSKV	2100
QY	247	LGYAED-----	-----PVLEPFMHQSGRLKTPSGKVIRI	277
DB	2101	DIQTELEDDGTCKVSYPPTPGVYIVSTKPADEHVP	GSPTFKVIGSGRVRKESITRTSRA	2160
QY	278	GYADKNEHPYVVISGRYMNADKGYLKLQGTSMQGI	KSYNQRQPLAEV-----LQONPSYIF	333
DB	2161	-----PSVATVGSICDLN-LKIPINSSDMSAHT	SPSGRVTEAEIIVPMGKNKSHCVR	2211
QY	334	P-----RELAGSNDGFGVAGLGTPLMGYAGAVDR	HYITLGP	371
DB	2212	FVPOEMGVHTVSVKYRGQHTVGGPFPQTVGPLGE	-----GGA-----HKVRAGGP	2256

Search completed: December 30, 2005, 08:28:54

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 30, 2005, 08:25:13 ; Search time 8 Seconds
(without alignments)
412.820 Million cell updates/sec

Title: US-09-914-454b-31

Perfect score: 2340

Sequence: 1 MKKYLFRALYGIAAAILAA.....KTTGYVWQLPNGMKPEYRP 441

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 57103 seqs, 7488799 residues

Total number of hits satisfying chosen parameters: 57103

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pdb.*
- 2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pdb.*
- 3: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pdb.*
- 4: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pdb.*
- 5: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pdb.*
- 6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pdb.*
- 7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pdb.*
- 8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pdb.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2257	96.5	468	6	US-10-467-657-776
2	94	4.0	503	6	US-10-793-626-1810
3	94	4.0	576	6	US-10-512-184-65
4	94	4.0	625	6	US-10-512-184-47
5	92	3.9	473	6	US-10-467-657-8108
6	90.5	3.9	1389	6	US-10-467-657-334
7	89.5	3.8	1702	7	US-11-143-980-48
8	86	3.7	1572	6	US-10-793-626-2906
9	85	3.6	808	7	US-11-110-082-38
10	83.5	3.6	331	6	US-10-878-556A-45
11	83.5	3.6	569	6	US-10-512-184-66
12	83.5	3.6	618	6	US-10-512-184-48
13	83	3.5	910	6	US-10-131-826A-112
14	81.5	3.5	409	7	US-11-055-822-290
15	81	3.5	534	7	US-11-082-389-348
16	81	3.5	607	7	US-11-096-051-14
17	81	3.5	2376	7	US-11-096-051-4
18	81	3.5	2715	7	US-11-096-051-2
19	81	3.5	2715	7	US-11-113-424-51
20	81	3.5	2721	7	US-11-096-051-10
21	81	3.5	2725	6	US-11-096-051-8
22	79.5	3.4	1565	6	US-10-467-657-2704
23	78	3.3	392	6	US-10-467-657-1784
24	78	3.3	520	6	US-10-131-826A-144
25	78	3.3	1394	6	US-10-467-657-7930

ALIGNMENTS

RESULT 1

US-10-467-657-776
; Sequence 776, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 776
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-776

Query Match 96.5%; Score 2257; DB 6; Length 468;
Best Local Similarity 95.7%; Pred. No. 2.3e-190;
Matches 422; Conservative 9; Mismatches 10; Indels 0; Gaps 0;

QY	1	MKKYLFRALYGIAAAILAACQSKIQTFFPDPTSVINGPDRPVGIPDPAGTTVGGGAV	60
DB	28	MKKHLLSALYGIAAAILAACQSKIQTFFPDPTSVINGPDRPVGIPDPAGTTVGGGAV	87
QY	61	YTVVPHLSLPHWAQDFAKLSQSRFLGCANLKNQGMQDVCAQAFQTPVHSFOAKQFFER	120
DB	88	YTVVPHLSLPHWAQDFAKLSQSRFLGCANLKNQGMQDVCAQAFQTPVHSFOAKQFFER	147
QY	121	YFTPMQVAGNSLAGTGTGYEYVPLKGDRETAQARFPIYIPDDFISVPLPAGLRSGKA	180
DB	148	YFTPMQVAGNSLAGTGTGYEYVPLKGDRETAQARFPIYIPDDFISVPLPAGLRSGKN	207
QY	181	LVRIRQTGKNSGTTDNTGGTHTADLSRPPITARTTAIKGRFEGSRFLPYHTRNQINGAL	240
DB	208	LVRIRQTGKNSGTTDNTGGTHTADLSRPPITARTTAIKGRFEGSRFLPYHTRNQINGAL	267
QY	241	DGKAPILGYADDPVELPFMHIIQSGSRKLTGSKYIRIGYADKNEHPYISIGRYMADKGYL	300
DB	268	DGKAPILGYADDPVELPFMHIIQSGSRKLTGSKYIRIGYADKNEHPYISIGRYMADKGYL	327

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QY 301 KLGQTSMQGKSYMRQNPORLAELVIGQNPYSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGA 360
Db 328 KLGQTSMQGKSYMRQNPORLAELVIGQNPYSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGA 387
QY 361 VDRHYITLGPAPLFVATAPVTRKALNRLNMAQDTGSAIDGAVRVDPYFWGYGDEAGELAGK 420
Db 388 IDRHYYITLGPAPLFVATAPVTRKALNRLNMAQDTGSAIDGAVRVDPYFWGYGDEAGELAGK 447
QY 421 QKTTGYVWQLLPNGMKPEYRP 441
Db 448 QKTTGYVWQLLPNGMKPEYRP 468

RESULT 2
US-10-793-626-1810
; Sequence 1810, Application US/10793626
; Publication No. US2005025478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; NUMBER OF SEQ ID NOS: 11-09
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1810
; LENGTH: 503
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1810

Query Match 4.0%; Score 94; DB 6; Length 503;
Best Local Similarity 20.2%; Pred. No. 0.85;
Matches 76; Conservative 47; Mismatches 128; Indels 126; Gaps 17;

QY 137 VTGYEPLVKGDD--RRTAQ--ARPPV-----YGIPTD----- 165
Db 75 ILGPYEISGDEVKRTGRIMEVPVGEEMIGRVVNPGLGQPIDGQPINATKTRPVEKKAT 134
QY 166 -----FISVPLPAGLSGKALVRI-----ROTGKNSGTIDNTGTHAD--LS 206
Db 135 GVMDKRSVDPLQGIKADIALVPIGRGQRELIIGDRQTKTVAIDSLNQKDQDTICI 194
QY 207 RFPITARTTAIKGRFEGSRFLPYHTRNQINGGALDGKAPILGYAEDDPVELFFMHQGS-- 264
Db 195 YVALGQKDSVTRANVEKLR-----QAGALDYTIIVSASAAPALLXIAPYSGVT 244
QY 265 -GRKTPSGKYIRIGYADKNEHPVSTIGRYMADKGYLKLQTSMQGKSYMRQNPORLAE 323
Db 245 MGBEFMFNGKHLVITYDD-----LTKQAAAYRELSLLLRPPPGREA- 285
QY 324 VLQGNPSYIFF-----RELAGSSND---GPVAGLGTPLMGEYAGVDRH----- 364
Db 286 -----YPGDVFYLSRLRLERAAKUNDDIGGGSITAL--PIIETQAGDISAYVPTNVISITD 339
QY 365 -YITLGPAPLFVATAPVTRKALNRLNMAQDTGSA-----IDGAVRVDPY-----FW 408
Db 340 GQIFLQSDLPFGSVRPAINAGQS---VSRVGSQAQIKMKKVAGTLRLDLASYLELESFA 396
QY 409 GYGEAGELAGKQKTTG 425
Db 397 QFGSDLDEFTAKKLARG 413

RESULT 3
US-10-512-184-65
; Sequence 65, Application US/10512184
; Publication No. US20050244901A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer Gesellschaft zur Forderung der angewandten Forschung e.V.
; TITLE OF INVENTION: Antibodies, recombinant antibodies, recombinant
; TITLE OF INVENTION: antibody fragments and fusions mediated plant disease
; TITLE OF INVENTION: resistance against fungi
; FILE REFERENCE: 3581.01US01
; CURRENT APPLICATION NUMBER: US/10/512,184
; CURRENT FILING DATE: 2004-10-22
```

```
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer Gesellschaft zur Forderung der angewandten Forschung e.V.
; TITLE OF INVENTION: Antibodies, recombinant antibodies, recombinant
; TITLE OF INVENTION: antibody fragments and fusions mediated plant disease
; FILE REFERENCE: 3581.01US01
; CURRENT APPLICATION NUMBER: US/10/512,184
; CURRENT FILING DATE: 2004-10-22
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 65
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: precursor
; OTHER INFORMATION: fusion protein comprising chitinase - linker -
; OTHER INFORMATION: scFv CWP2D.
US-10-512-184-65

Query Match 4.0%; Score 94; DB 6; Length 576;
Best Local Similarity 19.8%; Pred. No. 1;
Matches 102; Conservative 50; Mismatches 156; Indels 206; Gaps 25;

QY 21 CQSKSIQTFFPQDTSVINGDPDPVGPDPAGTTVGGGAVYT-----VVPHLSLPHWAA 74
Db 36 CQSQ-----CNGCSGGGTPVPVPTPG---GGVSSIIISQSLPQMLLHRNDAACQA 83
QY 75 QDF-----AKSIQSF-RLGCANLKNRQ-----GW----- 97
Db 84 KGFYNYGAFVAAANSFSGFATTGADVRKEVAFLAQTSHETTGWPTAPDGPYSWGYC 143
QY 98 -----QDVCAQAQTPVHSFOAKOFFERYTPMQVAGN-----GSLAGT----- 136
Db 144 FNOERGAASDYCSPNSQWP--CAPGKKYFGR--GPIQISYNYNGPAGRAIGTDLNNDP 199
QY 137 -----VTGYEPLVKGDDRRRTAQARFFIYGIPDDF 166
Db 200 LVATDATVSEKTALEWFMWTPQSPKPSHSDVITGRWSP--SGADQ--AAGRVPVGYVITNI 255
QY 167 ISVPLPAGLSGKALVRIOTGRKNSGTIDNTGTHADLSRFPITARTTAIKGRFEGSRF 226
Db 256 IN---GGLCEGR-----GQDGRVADRIG-----FYKRYCDLLGSYSGDNL 292
QY 227 LPYHTRN-QINGGALDGKAPILGYAEDDPVELFFMHQGSGLKTPSGKYIRIGYADKNEH 285
Db 293 DCYNQRPFAVDGGGGGGG---GSAAPQAMAAVTLDESGGLQTPGG----- 336
QY 286 PYVSIQRYMADKGYLKLQTSMQGKSYMRQNPORLAELVIGQNPYSYIFFRELAGSSNDGP 345
Db 337 -----GLSLVCKG--SGPDFSSDTMMWVRQAQPGKGLEF-----VAGISGDGS 376
QY 346 VGALGTPLMGEYAGVDRHYITLGPAPLFVATAPVTRKALNRLNMAQDTGS----- 396
Db 377 DTNYGSAVKGRATISRDNQGSTV-----RLQLNNL-RAEDTATYCTRGPCS 422
QY 397 -----AIDGAVRVDPYFWGYGDEAGELAGKQKTTG 425
Db 423 PTKNCAAD---RID-AWGHGTEVTVSSGSTSGSG 452

RESULT 4
US-10-512-184-47
; Sequence 47, Application US/10512184
; Publication No. US20050244901A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer Gesellschaft zur Forderung der angewandten Forschung e.V.
; TITLE OF INVENTION: Antibodies, recombinant antibodies, recombinant
; TITLE OF INVENTION: antibody fragments and fusions mediated plant disease
; TITLE OF INVENTION: resistance against fungi
; FILE REFERENCE: 3581.01US01
; CURRENT APPLICATION NUMBER: US/10/512,184
; CURRENT FILING DATE: 2004-10-22
```

```
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 47
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: fusion protein
; OTHER INFORMATION: comprising the leader peptide - chitinase - linker
; OTHER INFORMATION: - scfv CWP2 - cmc/His6.
US-10-512-184-47

Query Match      4.0%; Score 94; DB 6; Length 625;
Best Local Similarity 19.8%; Pred. No. 1.2;
Matches 102; Conservative 50; Mismatches 156; Indels 206; Gaps 26;

QY 21 QSKSIQTFPPQDTSVINGPRPVGIPDPAGTIVGGGAVYT-----VPHLSLPHWAA 74
Db 59 CQSQ-----CNGCSGGTVPVPTPTG---GGVSSIISQSLFDQMLLRNDAAQA 106

QY 75 QDF-----AKSLQSF-RLGCANLKNRQ-----GW-----97
Db 107 KGFYNYGAFVAAANSFSGFATTTGGADVRKREVAFLAQTSHETTGGWPTAPDGPVSWGYC 166

QY 98 -----QDVCAQAFQTPVHSFQAKQFFERYFTPWAGN-----GSLAGT-----136
Db 167 FNOERGAASDYCSPNSOWP--CAPGKYFGR--GPIQISYNYNYPAGRAIGTDLNNPD 222

QY 137 -----VTGYEPEVLKGDRTAQARPEPIGIPDF 166
Db 223 LVATDATVSFTALMFWMTPOSPESSHDVITGRWSP--SGAQ--AAGRVPYGVITNI 278

QY 167 ISVPLPAGLRSGKALVRIQTKNSGTIDNTGGTHTADLSRFPITARTAIKRGPEGSRF 226
Db 279 IN-----GGLEGR-----GQGRVADRIG-----FYKRYCDLLGVSYGDNL 315

QY 227 LPYHTRN-QINGGALDGKAPILGYAEDPVELFFMHIOGSGRLKTPSGKYIRIGYADKNEH 285
Db 316 DCYNQRPAVDGGGGGGG--GSAQAQPAAMAATLDESGLGQTPGG-----359

QY 286 PYVSGRYMADKGYLKLQTSMQGKSYMRQNPORLAELVGNQNPYSIFRELAGSSNDGP 345
Db 360 -----GLSLVCKG--SGDFSSDTMMVRQAPGKLEF-----VAGISGDGS 399

QY 346 VGALGTPLMGEYAGAVDRHYITLGAFLVATAHPVTRKALNRLIMAOQTGS-----396
Db 400 DNYGSAVKGRATISRDNQSTV-----RLQLNLL-RAEDTATYCTRGPCS 445

QY 397 -----AIDGAVRVDFWGYGDEAGELAGKQKTTG 425
Db 446 PTKNCAAD---RID-AWGHGTEVTVSSGSTSGSG 475

RESULT 5
US-10-467-657-8108
; Sequence 8108, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON Spa
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 8108
; LENGTH: 473
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-8108

Query Match      3.9%; Score 90.5; DB 6; Length 1389;
Best Local Similarity 20.4%; Pred. No. 7.1;
Matches 106; Conservative 51; Mismatches 179; Indels 183; Gaps 25;

QY 39 GPDPRV-----GIPDPAGTIVGGGAVTVVPHLS-----68
Db 645 GTSRPMADIKGGRLSLSGGAAVVDVDTAGLTGEGTAQHRIRTHAAMTLDGKPFKLDLAS 704

QY 69 -----LPHWAAQDPAKSLQSFRLGCA---NLKNRQ-----QWQDVCAQA---FQTPVHSFQ 113
Db 705 GGINRELTRWKG-----SIGILDIGGAFNLKQNRMTLEAGAEHVAASAANKQAMGGSIN 759

QY 114 AKQFFERYFTPWQ-----VAGNGLAG---TVTGYEP-----VLKGD-----148
Db 760 LQHF-----SWDRKTGISAKGGARGLHIALHNFPPFPFHEHNLVINGDWDVAYGHNARG 813

QY 149 ----DRRTAQAREP---IYGI-----PDDFISVPLPAGLRSGKALVRIQTKNSG 192
Db 814 YLNISRSGDAVLPGGQALGLNAFSLKTRFQNDRIIGILLDGGARFGRINADLIGNAPGG 873

; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-8108

Query Match      3.9%; Score 92; DB 6; Length 473;
Best Local Similarity 20.7%; Pred. No. 1.2;
Matches 56; Conservative 42; Mismatches 90; Indels 82; Gaps 13;

QY 223 GSRLPYHTRNQINGGALDGKAPILGYAEDPVELFFMHIOGSGRLKTPSGKYIRIGYADK 282
Db 31 GPRVTSYPTADRFHDGPREGE-----YIKVLHLRGMGALNPLSLYIHIPFCNT 79

QY 283 NEHPYVSIGRYMA-DKG-----YKLQGTSMQGIKSYMRQNPORLAELV---GNPYSI---332
Db 80 ICY-YCGCNKIITDKSRADTYIIELEKEMELLAPHLNGRHQ-LAQLHFGGGTPTFLSDE 137

QY 333 ----FFR-----ELAGSSNDGPVCGALGTPLMGEYAGAVDRHYITLGAFLF-----373
Db 138 QIERVFRMIRKHFELIPS-----GEYSIEDPRKVSRTVLMGLRGLGFRNM 183

QY 374 ---VATAHPVTRKALNRLIMAOQTGSAIDGA-----VRVDYFWGYGDEAGELAGKQKT 423
Db 184 SVGIQDPEPKVQAAVNRISQSYEETKEVIDAAREAGFKSVSDLIYGLPHQTSSE---SIKT 240

QY 424 T-----GYVWQLLPNGMKPEYR 440
Db 241 TIDTVLSLDPDLRLALYHYAHLPHVFKPQRR 270

RESULT 6
US-10-467-657-334
; Sequence 334, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON Spa
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 334
; LENGTH: 1389
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-334
```


QY 68 SLPWAAQDFA-KSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFQAKQFFERYFTPWQ 126

68 SLPHWAAODEFA-KSLOSFRLLGCANLKNROGWODVCAOAFOTPVHVSFOAKOFFERYFTPW 126


```
Db 736 -----GYSLEGAAMLTCYSRDTGTP-----KMSDRVPCALKYEPCLNPGVPENGQ 782
Qy 281 DKNEHPYVIG---RYMADKGYLKLQGTSMOIKSYMRQ-----NPQRLAE 323
Db 783 TLYKHY-QAGESLRFVFCFPELLIGEVTITCPVCHPSQWTSQPPLCKVQTOTDPSRQLE 841
Qy 324 -----VLQNPSPYIFFRELAGSSNDGPVGA 348
Db 842 GGNLALAILPLGLVILVILSG-VYIYYTKLQKSLFSGFS 881

RESULT 14
US-11-055-822-290
; Sequence 290, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kröger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPCN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 290
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-055-822-290

Query Match 3.5%; Score 81.5; DB 7; Length 409;
Best Local Similarity 22.8%; Pred. No. 8;
Matches 97; Conservative 39; Mismatches 136; Indels 153; Gaps 27;

Qy 137 VTGYEYVPLKDDRRTAQRPIYIPD--DFISVPLPAGLR-----SGKALVIRIQTK 189
Db 4 VTGL--PVTYPSQBASIGASPAVD-PDTKDSAYGHESGMRERISNAKRVVVKI---GS 57

Qy 190 NSGTIDTGGTHADLSRFPITARTTAIKGRFE-GSRFLPYHTRNQINGALDGKAPILG 248
Db 58 SSLINDEG--HTVDPNR--INTVNLQARMEAGSDLIIVS-----SGVAAGWAP-LG 107

Qy 249 YAEDPVEL-----FFMHQGS--GRLKTPSGKYIRIGYADKNEHPYVSIGRYM 294
Db 108 LSTRPTELAVKQAAAAVQVHLHMQWGRSFARYGRPIGQ-VLLTAADAGK-----RDR 159

Qy 295 ADKGYLKLQGTSMOIKSYMRQNP-----QRLAEVLGQ----- 327
Db 160 ARNAQRTIDKRLGAVPIVNEQDTVATTGVNFGDNDRLAAIHAHLVSADALVLLSDVDG 219
```

```
Qy 328 -----NPSYIFFRELAGSSND-----GPGVAGLGTPLMGEYAGAVDRHYITLGAFLPV 374
Db 220 LFDKNPTDPTAKTIFSEVR-DGNDLKGVIAGDGKVGTTGMSKVSAA-RLASRSQVPLV 277
Qy 375 ATA-----HPVTRKALNRL-----IMADTGSAL---DGAVRVDYFW 408
Db 278 TSAANIGPALEDAQVGTVFHPKD---NRLSAWKFALYAAADTAGKIRLDDGAVEAVTSG 333
Qy 409 G-----YGD-----EAGELAGK-----QKTTGYVWQLLPNGMK 436
Db 334 GKSLAVGITEILIGDFQGEIVEILGPAGQIIGRGEVSDYDTSLOSMVGMQTDLPDGMQ 393
Qy 437 PEYRP 441
Db 394 ---RP 395

RESULT 15
US-11-082-389-348
; Sequence 348, Application US/11082389
; Publication No. US20050244935A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kröger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; TITLE OF INVENTION: TRANSPORT
; FILE REFERENCE: BGI-131CPCN
; CURRENT APPLICATION NUMBER: US/11/082,389
; CURRENT FILING DATE: 2005-03-16
; PRIOR APPLICATION NUMBER: US 09/603024
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 60/143262
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: US 60/151281
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19930487.4
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19930489.0
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931549.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931550.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932134.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 446
; SEQ ID NO 348
; LENGTH: 534
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-082-389-348

Query Match 3.5%; Score 81; DB 7; Length 534;
Best Local Similarity 19.7%; Pred. No. 13;
Matches 102; Conservative 64; Mismatches 169; Indels 184; Gaps 30;

Qy 14 AAALAAALSAACSSDS-----SSDSSSSSGSEGSDNYVLVNGTEPQNPL---VPGNTNEV 63
Db 12 AAALAAALSAACSSDS-----SSDSSSSSGSEGSDNYVLVNGTEPQNPL---VPGNTNEV 63

Qy 56 GGG-----AVYTVVPHLSLPHWAAODFAKSLQ-----SFRLLCCANLKNRQGHQDVCAQAFQ 106
Db 64 GGGRIVDSIFSGLYVYDVGSPVNDVAESIELEGDKTYRI---TIKGGQTFD-----G 114
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QY 328 -----NPSYIFFRELAGSNDGPVG-----ALG-----TPLMGE 356
Db 714 LFOKWFASPPLAYTFIWDKTDAYNQKVGVLSEAVSVGYEYESCLDLTLWEKRTAILQG 773
QY 357 Y-----AGAVDRHYIT-----LGAPLVATAHPVT-----RKAL----- 385
Db 774 YELDASNMGGWTLDKHHVLDVONGILYKNGENQFISQOPPVSVSSIMNGRRRSISCPSC 833
QY 386 -----NRLIMAQDTGSAIDGAVRDYFWMGYDEAGELAGKQKTGYVMQLLPNG 434
Db 834 NQADGNKLLAPVALACGIDGSLYVGDF-----NYVRRIFPSG 871

RESULT 18
US-11-096-051-2
; Sequence 2, Application US/11096051
; Publication No. US20050244868A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: MacLachlan, Timothy K
; APPLICANT: Rastelli, Luca
; APPLICANT: Vernet, Corine
; APPLICANT: Eitenberg, Seth
; TITLE OF INVENTION: Ten-M3 Polypeptides and Polynucleotides and their Methods of Use
; FILE REFERENCE: Attorney Docket No. Cura 967
; CURRENT APPLICATION NUMBER: US/11/096,051
; CURRENT FILING DATE: 2005-03-30
; PRIOR APPLICATION NUMBER: 10/038,854
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 10/455,772
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/557,978
; PRIOR FILING DATE: 2004-03-30
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Curaseqlist version 0.1
; SEQ ID NO 2
; LENGTH: 2715
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-096-051-2

Query Match 3.5%; Score 81; DB 7; Length 2715;
Best Local Similarity 19.4%; Pred. No. 1.2e+02;
Matches 92; Conservative 50; Mismatches 137; Indels 196; Gaps 27;

QY 81 LOSFRLGKANLKNRQGM---QDVCAQAQFQTPVHSFOAKQFFER-----YFTPMQV 127
Db 811 LOS-----SCQNPYCKRGLPDPQDIISQSLQSPSQ-AAKSFYDRISFLIGSDSTHVLPGES 866
QY 128 AGNGLAGTGTGYEPVPLKGDRTTAQARFPFYIPDDFISVPLPAGLRSGKALVRIRQT 187
Db 867 PFNKLASVIRG---QVLTADGT-----PLIGNVVSFFHY-----EYGTITR----- 907
QY 188 GKNSTID--NTGGTHADLSRFPITARTTAIKGRFEGSRFL--PVHT----- 231
Db 908 ---QDGMFLVANGG-----ASLTLV---FERSPFLTYQHTVWIPMNVFYVMDT 950
QY 232 -----RNOINGGALDG---KAPILGYAEDPVELEFF-----MHIOGSGRL 267
Db 951 LVMKKEENDIPSCDLSGFVRPNPIL--VSSPLSTFRSSPEDSPIIPETQVLHEE----- 1003
QY 268 KTPSGKYIRIGYADKNEHPYVSGRYMADKGYLKGQTSMQGIKSYMQRNQPORLAELVQG 327
Db 1004 TTIPTGDLKLSYLSRAAGYKSV-----LKI--TWTQSIIPFNLKVLHLMVAVVR 1052
QY 328 -----NPSYIFFRELAGSNDGPVG-----ALG-----TPLMGE 356
Db 1053 LFOKWFASPPLAYTFIWDKTDAYNQKVGVLSEAVSVGYEYESCLDLTLWEKRTAILQG 1112
QY 357 Y-----AGAVDRHYIT-----LGAPLVATAHPVT-----RKAL----- 385
Db 1113 YELDASNMGGWTLDKHHVLDVONGILYKNGENQFISQOPPVSVSSIMNGRRRSISCPSC 1172

QY 386 -----NRLIMAQDTGSAIDGAVRDYFWMGYDEAGELAGKQKTGYVMQLLPNG 434
Db 1173 NQADGNKLLAPVALACGIDGSLYVGDF-----NYVRRIFPSG 1210

RESULT 19
US-11-113-424-51
; Sequence 51, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 2715
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-113-424-51

Query Match 3.5%; Score 81; DB 7; Length 2715;
Best Local Similarity 18.7%; Pred. No. 1.2e+02;
Matches 89; Conservative 49; Mismatches 140; Indels 198; Gaps 23;

QY 81 LOSFRLGKANLKNRQGM---QDVCAQAQFQTPVHSFOAKQFFER-----YFTPMQV 127
Db 811 LOS-----SCQNPYCKRGLPDPQDIISQSLQSPSQ-AAKSFYDRISFLIGSDSTHVLPGES 866
QY 128 AGNGLAGTGTGYEPVPLKGDRTTAQARFPFYIPDDFISVPLPAGLRSGKALVRIRQT 187
Db 867 PFNKLASVIRG---QVLTADGT-----PLIGNVVSFLH----- 897
QY 188 GKNSTIDNTGGTHADLSRFPITARTTA--IKGRFEGSRFL--PVHT----- 231
Db 898 -----XSEYGTITRODGMEDLVANGASLTLVFERSPFLTYQHTVWIPMNVFYVMDTL 951
QY 232 -----RNOINGGALDG---KAPILGYAEDPVELEFF-----MHIOGSGRLK 268
Db 952 VMKKEENDIPSCDLSGFVRPSPIL--VSSPLSTFRSSPEDSPIIPETQVLHEE-----T 1004
QY 269 TSPSGKYIRIGYADKNEHPYVSGRYMADKGYLKGQTSMQGIKSYMQRNQPORLAELVQG- 327
Db 1005 TTIPTGDLKLSYLSRAAGYKSV-----LKI--TWTQAVIPFNLKVLHLMVAVVGR 1053
QY 328 -----NPSYIFFRELAGSNDGPVG----- 347
Db 1054 FQKWFASPPLAYTFIWDKTDAYNQKVGVLSEAVSVGYEYESCLDLTLWEKRTAVLQY 1113
QY 348 ALGTPLEGEYAGAVDRHYIT-----LGAPLVATAHPVT-----RKAL----- 385
Db 1114 ELDASNMGGW--TLDKHHVLDVONGILYKNGENQFISQOPPVSVSSIMNGRRRSISCPSC 1171

; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 2704
; LENGTH: 1565
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-2704

Query Match 3.4%; Score 79.5; DB 6; Length 1565;
Best Local Similarity 21.2%; Pred. No. 77;
Matches 87; Conservative 40; Mismatches 140; Indels 143; Gaps 21;
QY 48 DPAGTTVGGGAVYTVPHLSLPHWAAQDPKSLQSPRLGCAN-----LKNRQG--WDQVC 101
DB 299 DNAGTVKNG-----EH-----HWKTTGTNSHIGSTAVRLANNEGDANNQNVTFEDNG 347
QY 102 AQAFTVPFSGFQAKOFFERYFT-----PWOV-----A 128
DB 348 TLVLQDINQAGAGLFFKGDYTVKANNDDITWLGAGIDVADGKKVWQVKNPNGDRLAKI 407
QY 129 GNGSLAGTVTGYEYEVL-----KGDRRTAQAARFYIYGI-----PDDF 166
DB 408 GKGTLIEINGTVNQOLKVGDTVLNQAADSNQKVA--FSQVGIVSGRGTVLVNSPDQI 466
QY 167 ISVPLPAGLRSGKALVRITQKNSGTTDNGTHTADLSRPPITARTTAIKRPEGSRP 226
DB 467 PNNLYPFRGGR-----LDANGNDLTFE-----HIRNVDGARI 501
QY 227 LPYHTRNQINGALDGKAPILG-----YAEPPVELFFMHQISGRLKTPSGKY 274
DB 502 VNHNT-DHASTITLTKSLIINPNLSVHSIQNDYEDENYSYY-----RPRPDPQKD 555
QY 275 IRIGVADKNEHPYV-----SIGRYMADKG-----YKLGQTSMQGKSYM-RQNQRLA 322
DB 556 LVY-----KNRYRYALKSGSVNAPNPENGQTEENNIDWILMGSTQBEAKKNMHNQNRIS 611
QY 323 EVLGONPSYIFRELAGSNDGPVGCALGTPLMGEYAGAVDRHYITLGAFL 372
DB 612 GFSG-----PFGEENGKGNH---GALNLFNGK--SAQRFLTLGGANL 650

RESULT 23
US-10-467-657-1784
; Sequence 1784, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 1784
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1784

Query Match 3.3%; Score 78; DB 6; Length 392;
Best Local Similarity 22.4%; Pred. No. 15;

Matches 52; Conservative 33; Mismatches 111; Indels 36; Gaps 10;
QY 169 VPLPAGLRSGKALVRIR-----OTGKNSGTIDTGGTHTADLSRPPITAR---TTAIKGR 220
DB 67 VP-PAIDRDYPAKVRVKMETVKMTKMDDDGVEYRYVTFTDGDVPGRMIRVRGDTVEVERFS 125
QY 221 FEGSRFLP-----YHTRNQINGGA-----LDGKAPILGYAEDPVELFFMH--IQSGRLKT 269
DB 126 NPSSTVPHNVDFHAATQGGGAAATFTAPGRSTSTFSFKALQPGLYIYHCAVAPVG-MHI 184
QY 270 PSQKVIIRIGYADKNEHPVVSIGRYMADKGYLKGQTSMQGKSYMKNQNPQRLAEVLGNP 329
DB 185 ANGWYGLILVEPKGLPKVDKEFYIVQGDFTYTKGKKGAGGLQ-----PFMDKAVASQP 238
QY 330 SYIFRELAGSNDGPVGCAL-GTPLMGGEYAGAVDRHYITLGAFLPVATAHPV 380
DB 239 EYVVF-----NGHVGAIGADNALKAKAGETVTRMYVVGNGGPNLVSSSFHVI 282

RESULT 24
US-10-131-826A-144
; Sequence 144, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvarcoff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C128
; CURRENT APPLICATION NUMBER: US/10/131,826A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/045911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 144
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-826A-144

Job time : 12 secs

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Db      249 TLVGSMDAVTGYMLTAL-----ARLGDALF-----LTAGIVVG-ILISLR-- 288
Qy      188 GKNSGTTDNTGCTHTADLSRPPTARTT-AIKGRFEGSRFLPYHTRNOINGGALDGKA-P 245
Db      289 -----GVTNAGIQIELHVDATTTLATPG-----MPLPILVAVSGAALSGVCLT 331
Qy      246 ILGYAEDPVELFFWHIQSGRLKTPSGKYIRIGYADKNEHPYVSIGRYMADKGYLKLQGT 305
Db      332 IASVAP-----LRSVATAGISAGLAE-----LVLIGLGAAGFGRVATWT 371
Qy      306 SMOGIK-----SYMQRNPQRLAEVLQGNPSY-----IFFRELAGSSNDGPVG----- 347
Db      372 AATGVGFLATLISIRROPALVATAGIMPMPLPCLAVFAVFAVAVNDTPDGGILTQLEA 431
Qy      348 -----ALGT-PLMGEYAGVDRHYITLGCPLFVATAHPVTRKALNRLIMADQTGS 396
Db      432 AATALALGSGVVLGEFLASPLRYGAGRIGDLFRIEGPGLRRVAVGRVRLQPAKS 486

RESULT 30
US-10-821-234-1262
; Sequence 1262, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeciampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt seq_genes Version 1.0
; SEQ ID NO 1262
; LENGTH: 2657
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1262

Query Match      3.3%; Score 77.5; DB 6; Length 2657;
Best Local Similarity 20.1%; Pred. No. 2.4e+02;
Matches 71; Conservative 39; Mismatches 101; Indels 143; Gaps 17;

Qy      135 GTVTGYEYEPVLKG-----DDRTAQARFPFIYIPDDFI--- 167
Db      1929 GTCVTYTLPTLPGDYSILVKYNDKHIPGSPPTAKITDSDRCSQVKL--GSAADFLLDI 1985
Qy      168 -----SVPLPAGLRSGKALVRI-----RQTGKNSGTIDNTGGTHTADLS 206
Db      1986 SETDLSLITASIKAPSGRDEPCLLRPLNNHIGISFIPREVGEHLVSI-KKNGNHVAN-- 2042
Qy      207 RFPIT-----ARTAIKGR-----FEGSRFLPYHTRNOINGG---ALDGKAPI 246
Db      2043 -SPVISIMVQSEIGDARRAKVYGRGLSEGRTFEMSDFI-VDTRDAGYGGISLAVEGFSKV 2100
Qy      247 LGYAE-----PVLEPFMHIQSGRLKTPSGKYIRI 277
Db      2101 DIQTEDLEDGTCVSPYFPTVPGVIVSTKFADEHVPGPSPTVKISGEGRVKESITRTSRA 2160
Qy      278 GYADKNEHPYVSIGRYMADKGYLKLQGTSMOGIKSYMQRNPQRLAEV-----LGNPSYIP 333
Db      2161 -----PSVATVGSICDNLN-LKIPENSSDMSAHVTPSPGRVTEAIVPMGKNSHCVR 2211
Qy      334 F-----RELAGSSNDGPVAGLGTPLMGEYAGVDRHYITLQAP 371
Db      2212 FVPQMGVHTVSVKYRGQHVTVGSPFTVGPFLGE-----CGA---HKVRAGGP 2256
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Search completed: December 30, 2005, 08:28:54

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 30, 2005, 08:25:13 ; Search time 164 Seconds
(without alignments)
1123.553 Million cell updates/sec

Title: US-09-914-454b-31

Perfect score: 2340

Sequence: 1 MKKYLFRALYGIAAAILAA.....KTTGYVWQLPNGMKPYRYP 441

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA_Main:

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2333	99.7	441	5	US-10-915-740A-993
2	2333	99.7	441	5	US-10-915-740A-995
3	2330	99.6	441	4	US-10-181-660-14
4	2330	99.6	441	4	US-10-220-481-1
5	2330	99.6	441	5	US-10-181-600-14
6	2302	98.4	441	4	US-10-121-456A-1
7	2302	98.4	441	5	US-10-915-740A-999
8	2262	96.7	440	4	US-10-220-481-3
9	2257	96.5	441	5	US-10-915-740A-997
10	2236	95.6	832	4	US-10-220-480-4
11	2236	95.6	832	4	US-10-220-481-89
12	2236	95.6	897	4	US-10-220-480-10
13	2236	95.6	897	4	US-10-220-481-95
14	2227	95.2	420	4	US-10-220-481-2
15	1015	43.4	194	4	US-10-220-481-8
16	316.5	13.5	367	4	US-10-415-017-2
17	316.5	13.5	367	4	US-10-415-017-6
18	316.5	13.5	367	4	US-10-415-017-10
19	315.5	13.5	367	4	US-10-415-017-8
20	314.5	13.4	367	4	US-10-415-017-4
21	238.5	10.2	196	4	US-10-220-481-9
22	225.5	9.6	1118	5	US-10-450-763-54683
23	138	5.9	628	5	US-10-450-763-59399
24	137.5	5.9	88	4	US-10-425-115-193992
25	111	4.7	440	4	US-10-424-599-206691
26	108	4.6	676	4	US-10-282-122A-56343
27	106	4.5	1006	5	US-10-484-218-22

28	102.5	4.4	503	4	US-10-369-493-17897	Sequence 17897, A
29	102	4.4	463	4	US-10-282-122A-52178	Sequence 52178, A
30	102	4.4	627	4	US-10-282-122A-55128	Sequence 55128, A
31	102	4.4	3745	4	US-10-205-032-14	Sequence 14, Appl
32	101.5	4.3	457	4	US-10-156-761-12009	Sequence 12009, A
33	101	4.3	359	4	US-10-016-668-4	Sequence 4, Appli
34	100	4.3	502	4	US-10-369-493-10113	Sequence 10113, A
35	100	4.3	506	4	US-10-282-122A-54065	Sequence 54065, A
36	98.5	4.2	357	4	US-10-424-599-253747	Sequence 253747, A
37	98.5	4.2	1616	3	US-09-712-363-262	Sequence 262, App
38	98.5	4.2	1616	4	US-10-282-122A-62790	Sequence 62790, A
39	98.5	4.2	1799	4	US-10-282-122A-64807	Sequence 64807, A
40	97.5	4.2	820	4	US-10-282-122A-66383	Sequence 66383, A
41	97.5	4.2	1279	4	US-10-332-288-6	Sequence 6, Appli
42	97	4.1	249	4	US-10-220-481-116	Sequence 116, App
43	97	4.1	2448	4	US-10-210-172-48	Sequence 48, Appl
44	97	4.1	3217	4	US-10-311-623-8	Sequence 8, Appli
45	97	4.1	3298	4	US-10-160-758-16	Sequence 16, Appl

ALIGNMENTS

RESULT 1

US-10-915-740A-993

; Sequence 993, Application US/10915740A

; Publication No. US20050191316A1

; GENERAL INFORMATION:

; APPLICANT: Frazer, Claire M.

; APPLICANT: Hickey, Erin

; APPLICANT: Peterson, Jeremy

; APPLICANT: Tettelin, Herve

; APPLICANT: Venter, J. Craig

; APPLICANT: Masignani, Vega

; APPLICANT: Galeotti, Cesira

; APPLICANT: Mora, Manroza

; APPLICANT: Ratti, Giulio

; APPLICANT: Scarselli, Maria

; APPLICANT: Scarlato, Vincenzo

; APPLICANT: Rappuoli, Rino

; APPLICANT: Pizza, Mariagrazia

; APPLICANT: Grandi, Guido

; TITLE OF INVENTION: Neisseria Genomic Sequences And Methods Of Their Use

; FILE REFERENCE: 002441.00090

; CURRENT APPLICATION NUMBER: US/10/915,740A

; PRIOR FILING DATE: 2004-08-11

; PRIOR FILING DATE: 1999-10-08

; PRIOR APPLICATION NUMBER: US99/25373

; PRIOR FILING DATE: 1998-10-09

; PRIOR APPLICATION NUMBER: US99/25373

; PRIOR FILING DATE: 1999-04-30

; PRIOR APPLICATION NUMBER: PCT/US99/25373

; PRIOR FILING DATE: 1999-10-08

; NUMBER OF SEQ ID NOS: 1068

; SOFTWARE: Patent in version 3.2

; SEQ ID NO 993

; LENGTH: 441

; TYPE: PRT

; ORGANISM: Neisseria meningitidis

US-10-915-740A-993

Query Match

Best Local Similarity 99.7%; Score 2333; DB 5; Length 441;

Matches 440; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MKKYLFRALYGIAAAILAACQSKSIQTFFPPDTSVINGPDRPVGIPDPAGTTVGGGAV	60
Db	1	MKKYLFRALYGIAAAILAACQSKSIQTFFPPDTSVINGPDRPVGIPDPAGTTVGGGAV	60
Qy	61	YTVVPHLSLPHWAQDFAKSLQSFRLGCANLKNRGWQDVCAQAFQTPVHSFOAKQFFER	120
Db	61	YTVVPHLSLPHWAQDFAKSLQSFRLGCANLKNRGWQDVCAQAFQTPVHSFOAKQFFER	120

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QY 121 YFTPWQVAGNSLAGTGTGYEVLKGDRTTAQARPPYIGIPDDFISVPLPAGLRSGKA 180
DB 121 YFTPWQVAGNSLAGTGTGYEVLKGDRTTAQARPPYIGIPDDFISVPLPAGLRSGKA 180
QY 181 LVRIQRTKNSGTTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGAL 240
DB 181 LVRIQRTKNSGTTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGAL 240
QY 241 DGKAPILGYAEDPVELPFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300
DB 241 DGKAPILGYAEDPVELPFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300
QY 301 KLGQTSMQGIKSYMRQNPORLAELVGLGONPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGA 360
DB 301 KLGQTSMQGIKSYMRQNPORLAELVGLGONPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGA 360
QY 361 VDRHYITLGAFLFVATAHPVTRKALNRLIMAQDTGSAIDGAVRDYFWMGYGDEAGELAGK 420
DB 361 VDRHYITLGAFLFVATAHPVTRKALNRLIMAQDTGSAIDGAVRDYFWMGYGDEAGELAGK 420
QY 421 QKTTGYVWQLLPNGMKPEYRP 441
DB 421 QKTTGYVWQLLPNGMKPEYRP 441
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RESULT 2

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US-10-915-740A-995
; Sequence 995, Application US/10915740A
; Publication No. US20050191316A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Claire M.
; APPLICANT: Hickey, Erin
; APPLICANT: Peterson, Jeremy
; APPLICANT: Tettelin, Herve
; APPLICANT: Venter, J. Craig
; APPLICANT: Maignani, Vega
; APPLICANT: Galeotti, Cesira
; APPLICANT: Mora, Manroa
; APPLICANT: Ratti, Giulio
; APPLICANT: Scarselli, Maria
; APPLICANT: Scarlato, Vincenzo
; APPLICANT: Rappuoli, Rino
; APPLICANT: Pizza, Mariagrazia
; APPLICANT: Grandi, Guido
; TITLE OF INVENTION: Neisseria Genomic Sequences And Methods Of Their Use
; FILE REFERENCE: 002441.00090
; CURRENT APPLICATION NUMBER: US/10/915,740A
; CURRENT FILING DATE: 2004-08-11
; PRIOR APPLICATION NUMBER: 09/806,866
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US9N 60/103,794
; PRIOR FILING DATE: 1998-10-09
; PRIOR APPLICATION NUMBER: US9N 60/132,068
; PRIOR FILING DATE: 1999-04-30
; PRIOR APPLICATION NUMBER: PCT/US99/25373
; PRIOR FILING DATE: 1999-10-08
; NUMBER OF SEQ ID NOS: 1088
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 995
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-915-740A-995
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Query Match          99.7%; Score 2333; DB 5; Length 441;
Best Local Similarity 99.8%; Pred. No. 9.5e-215;
Matches 440; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MKKYLFRALYGIATAAIIAACQSKSIOTFPQDPTSVINGDPRPVGIPDPAGTTVGGGAV 60
DB 1 MKKYLFRALYGIATAAIIAACQSKSIOTFPQDPTSVINGDPRPVGIPDPAGTTVGGGAV 60
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QY 61 YTVVPHLSLPHWAAQDPAKSLQSFRLGCANLKNRQGHQDVCQAQAFQTPVHSFOAKQFFER 120
DB 61 YTVVPHLSLPHWAAQDPAKSLQSFRLGCANLKNRQGHQDVCQAQAFQTPVHSFOAKQFFER 120
QY 121 YFTPWQVAGNSLAGTGTGYEVLKGDRTTAQARPPYIGIPDDFISVPLPAGLRSGKA 180
DB 121 YFTPWQVAGNSLAGTGTGYEVLKGDRTTAQARPPYIGIPDDFISVPLPAGLRSGKA 180
QY 181 LVRIQRTKNSGTTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGAL 240
DB 181 LVRIQRTKNSGTTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGAL 240
QY 241 DGKAPILGYAEDPVELPFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300
DB 241 DGKAPILGYAEDPVELPFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300
QY 301 KLGQTSMQGIKSYMRQNPORLAELVGLGONPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGA 360
DB 301 KLGQTSMQGIKSYMRQNPORLAELVGLGONPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGA 360
QY 361 VDRHYITLGAFLFVATAHPVTRKALNRLIMAQDTGSAIDGAVRDYFWMGYGDEAGELAGK 420
DB 361 VDRHYITLGAFLFVATAHPVTRKALNRLIMAQDTGSAIDGAVRDYFWMGYGDEAGELAGK 420
QY 421 QKTTGYVWQLLPNGMKPEYRP 441
DB 421 QKTTGYVWQLLPNGMKPEYRP 441
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RESULT 3

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US-10-181-660-14
; Sequence 14, Application US/10181660
; Publication No. US20030027097A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; TITLE OF INVENTION: SUPPLEMENTED OMV VACCINE AGAINST MENINGOCOCCUS
; FILE REFERENCE: P023785W0
; CURRENT APPLICATION NUMBER: US/10/181,660
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: GB-0001067.8
; PRIOR FILING DATE: 2000-01-17
; PRIOR APPLICATION NUMBER: GB-0005699.4
; PRIOR FILING DATE: 2000-03-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 14
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-181-660-14
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Query Match          99.6%; Score 2330; DB 4; Length 441;
Best Local Similarity 99.5%; Pred. No. 1.8e-214;
Matches 439; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MKKYLFRALYGIATAAIIAACQSKSIOTFPQDPTSVINGDPRPVGIPDPAGTTVGGGAV 60
DB 1 MKKYLFRALYGIATAAIIAACQSKSIOTFPQDPTSVINGDPRPVGIPDPAGTTVGGGAV 60
QY 61 YTVVPHLSLPHWAAQDPAKSLQSFRLGCANLKNRQGHQDVCQAQAFQTPVHSFOAKQFFER 120
DB 61 YTVVPHLSLPHWAAQDPAKSLQSFRLGCANLKNRQGHQDVCQAQAFQTPVHSFOAKQFFER 120
QY 121 YFTPWQVAGNSLAGTGTGYEVLKGDRTTAQARPPYIGIPDDFISVPLPAGLRSGKA 180
DB 121 YFTPWQVAGNSLAGTGTGYEVLKGDRTTAQARPPYIGIPDDFISVPLPAGLRSGKA 180
QY 181 LVRIQRTKNSGTTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGAL 240
DB 181 LVRIQRTKNSGTTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGAL 240
QY 241 DGKAPILGYAEDPVELPFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300
DB 241 DGKAPILGYAEDPVELPFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300
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Db 241 DGKAPILGYAEDPVELPFMHIOGSGRLKTPSGKYIRIGYADKNEHPYVSIIGRYMADKGYL 300
Qy 301 KLGQTSMOGIIKSYMRQNPORLAELVQNPSPYIFFRELAGSSNDGPGVGLGTPLMGEYAGA 360
Db 301 KLGQTSMOGIIKAYMRQNPORLAELVQNPSPYIFFRELAGSSNDGPGVGLGTPLMGEYAGA 360
Qy 361 VDRHYITLGAPLFFVATAHPVTRKALNRLIQAQDTGSAIDGAVRDYFVWGYGDEAGELAGK 420
Db 361 VDRHYITLGAPLFFVATAHPVTRKALNRLIQAQDTGSAIDGAVRDYFVWGYGDEAGELAGK 420
Qy 421 QKTTGYVWQLLPNGMKPEYRP 441
Db 421 QKTTGYVWQLLPNGMKPEYRP 441

RESULT 4

US-10-220-481-1
; Sequence 1, Application US/10220481
; Publication No. US20040110670A1
; GENERAL INFORMATION:
; APPLICANT: ARICO, Maria B., et al.
; TITLE OF INVENTION: Heterologous Expression of Neisserial Proteins
; FILE REFERENCE: CHIR-15883/01US
; CURRENT APPLICATION NUMBER: US/10/220,481
; CURRENT FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: PCT/IB01/00452
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 633
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 1
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-220-481-1

Query Match 99.6%; Score 2330; DB 4; Length 441;
Best Local Similarity 99.5%; Pred. No. 1.8e-214;
Matches 439; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MKKYLFRALYGVIAAAIILAAQCSKSIQTFPPQDTSVINGPDRPVGIPDPAGTIVGGGAV 60
Db 1 MKKYLFRALYGVIAAAIILAAQCSKSIQTFPPQDTSVINGPDRPVGIPDPAGTIVGGGAV 60
Qy 61 YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFOAKQFFER 120
Db 61 YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFOAKQFFER 120
Qy 121 YFTPMQVAGNSLAGTGTGGTHTADLSRPFITARTTAIKGRFEGSRFLPYHTRNQINGGAL 180
Db 121 YFTPMQVAGNSLAGTGTGGTHTADLSRPFITARTTAIKGRFEGSRFLPYHTRNQINGGAL 180
Qy 181 LVRIQRTGKNSGTTDNTGGTHTADLSRPFITARTTAIKGRFEGSRFLPYHTRNQINGGAL 240
Db 181 LVRIQRTGKNSGTTDNTGGTHTADLSRPFITARTTAIKGRFEGSRFLPYHTRNQINGGAL 240
Qy 241 DGKAPILGYAEDPVELPFMHIOGSGRLKTPSGKYIRIGYADKNEHPYVSIIGRYMADKGYL 300
Db 241 DGKAPILGYAEDPVELPFMHIOGSGRLKTPSGKYIRIGYADKNEHPYVSIIGRYMADKGYL 300
Qy 301 KLGQTSMOGIIKSYMRQNPORLAELVQNPSPYIFFRELAGSSNDGPGVGLGTPLMGEYAGA 360
Db 301 KLGQTSMOGIIKAYMRQNPORLAELVQNPSPYIFFRELAGSSNDGPGVGLGTPLMGEYAGA 360
Qy 361 VDRHYITLGAPLFFVATAHPVTRKALNRLIQAQDTGSAIDGAVRDYFVWGYGDEAGELAGK 420
Db 361 VDRHYITLGAPLFFVATAHPVTRKALNRLIQAQDTGSAIDGAVRDYFVWGYGDEAGELAGK 420
Qy 421 QKTTGYVWQLLPNGMKPEYRP 441
Db 421 QKTTGYVWQLLPNGMKPEYRP 441

RESULT 5

US-10-181-600-14
; Sequence 14, Application US/10181600
; Publication No. US20040249125A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON Spa
; TITLE OF INVENTION: SUPPLEMENTED OMV VACCINE AGAINST MENINGOCOCCUS
; FILE REFERENCE: P023785WO
; CURRENT APPLICATION NUMBER: US/10/181,600
; CURRENT FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: GB-0001067.8
; PRIOR FILING DATE: 2000-01-17
; PRIOR APPLICATION NUMBER: GB-0005699.4
; PRIOR FILING DATE: 2000-03-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 14
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-181-600-14

Query Match 99.6%; Score 2330; DB 5; Length 441;
Best Local Similarity 99.5%; Pred. No. 1.8e-214;
Matches 439; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MKKYLFRALYGVIAAAIILAAQCSKSIQTFPPQDTSVINGPDRPVGIPDPAGTIVGGGAV 60
Db 1 MKKYLFRALYGVIAAAIILAAQCSKSIQTFPPQDTSVINGPDRPVGIPDPAGTIVGGGAV 60
Qy 61 YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFOAKQFFER 120
Db 61 YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFOAKQFFER 120
Qy 121 YFTPMQVAGNSLAGTGTGGTHTADLSRPFITARTTAIKGRFEGSRFLPYHTRNQINGGAL 180
Db 121 YFTPMQVAGNSLAGTGTGGTHTADLSRPFITARTTAIKGRFEGSRFLPYHTRNQINGGAL 180
Qy 181 LVRIQRTGKNSGTTDNTGGTHTADLSRPFITARTTAIKGRFEGSRFLPYHTRNQINGGAL 240
Db 181 LVRIQRTGKNSGTTDNTGGTHTADLSRPFITARTTAIKGRFEGSRFLPYHTRNQINGGAL 240
Qy 241 DGKAPILGYAEDPVELPFMHIOGSGRLKTPSGKYIRIGYADKNEHPYVSIIGRYMADKGYL 300
Db 241 DGKAPILGYAEDPVELPFMHIOGSGRLKTPSGKYIRIGYADKNEHPYVSIIGRYMADKGYL 300
Qy 301 KLGQTSMOGIIKSYMRQNPORLAELVQNPSPYIFFRELAGSSNDGPGVGLGTPLMGEYAGA 360
Db 301 KLGQTSMOGIIKAYMRQNPORLAELVQNPSPYIFFRELAGSSNDGPGVGLGTPLMGEYAGA 360
Qy 361 VDRHYITLGAPLFFVATAHPVTRKALNRLIQAQDTGSAIDGAVRDYFVWGYGDEAGELAGK 420
Db 361 VDRHYITLGAPLFFVATAHPVTRKALNRLIQAQDTGSAIDGAVRDYFVWGYGDEAGELAGK 420
Qy 421 QKTTGYVWQLLPNGMKPEYRP 441
Db 421 QKTTGYVWQLLPNGMKPEYRP 441

RESULT 6

US-10-121-456A-1
; Sequence 1, Application US/10121456A
; Publication No. US20040013686A1
; GENERAL INFORMATION:
; APPLICANT: GRANOFF, Dan
; APPLICANT: MOE, Gregory
; APPLICANT: RAPUOLI, Rino
; TITLE OF INVENTION: MOLECULAR MIMETICS OF MENINGOCOCCAL B EPITOPES WHICH
; FILE REFERENCE: 2302-17782 / PPI7782.003
; CURRENT APPLICATION NUMBER: US/10/121,456A
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: Patent in Ver. 2.0

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; SEQ ID NO 1
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: exemplary GNA33
US-10-121-456A-1

Query Match      98.4%; Score 2302; DB 4; Length 441;
Best Local Similarity 98.4%; Pred. No. 9e-212;
Matches 434; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MKKYLFRALYGTAAAILAACQSKSIQTFPQDTSVINGPDRPVGIPDPAGTTVGGGAV 60
Db 1 MKKYLFRALCGTAAAILAACQSKSIQTFPQDTSVINGPDRPVGIPDPAGTTVGGGAV 60

Qy 61 YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWODVCAQAFQTPVHSFOAKOFFER 120
Db 61 YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWODVCAQAFQTPVHSFOAKOFFER 120

Qy 121 YFTPWQVAGNSLAGTGTGYEYEPVLKGDRTTAQARFPIYIGIPDDFISVPLPAGLRSGKA 180
Db 121 YFTPWQVAGNSLAGTGTGYEYEPVLKGDRTTAQARFPIYIGIPDDFISVPLPAGLRSGKA 180

Qy 181 LVRIQTKNSGTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGGAL 240
Db 181 LVRIQTKNSGTIDNTGGTHTADLSQFPITARTTAIKGRFEGSRFLPYHTRNQINGGAL 240

Qy 241 DGKAPILGYAEDPVELFFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300
Db 241 DGKAPILGYAEDPVELFFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300

Qy 301 KLQGTSMOGIKSYMRQNPQRLAEVLGQNPYSYIFRELGSNDGPGVCGALGTPLMGEYAGA 360
Db 301 KLQGTSMOGIKAYMQNPQRLAEVLGQNPYSYIFRELTSNDGPGVCGALGTPLMGEYAGA 360

Qy 361 VDRHYITLGAFLPVATAHPVTRKALNRLINMAQDTGSAIDGAVRDYFWGYGDEAGELAGK 420
Db 361 VDRHYITLGAFLPVATAHPVTRKALNRLINMAQDTGSAIKGAVRDYFWGYGDEAGELAGK 420

Qy 421 QKTTGYVWQLLPNGMKPEYRP 441
Db 421 QKTTGYVWQLLPNGMKPEYRP 441
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RESULT 7
US-10-915-740A-999
; Sequence 999, Application US/10915740A
; Publication No. US20050191316A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Claire M.
; APPLICANT: Hickey, Erin
; APPLICANT: Peterson, Jeremy
; APPLICANT: Tettelin, Herve
; APPLICANT: Venter, J. Craig
; APPLICANT: Masionani, Vega
; APPLICANT: Galeotti, Cesira
; APPLICANT: Mora, Manroza
; APPLICANT: Ratti, Giulio
; APPLICANT: Scarselli, Maria
; APPLICANT: Scarlato, Vincenzo
; APPLICANT: Rappuoli, Rino
; APPLICANT: Pizza, Mariagrazia
; APPLICANT: Grandi, Guido
; TITLE OF INVENTION: Neisseria Genomic Sequences And Methods Of Their Use
; FILE REFERENCE: 002441.00090
; CURRENT APPLICATION NUMBER: US/10/915,740A
; CURRENT FILING DATE: 2004-08-11
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: 09/806,866
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: USSN 60/103,794
; PRIOR FILING DATE: 1998-10-09
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; PRIOR APPLICATION NUMBER: USSN 60/132,068
; PRIOR FILING DATE: 1999-04-30
; PRIOR APPLICATION NUMBER: PCT/US99/25373
; PRIOR FILING DATE: 1999-10-08
; NUMBER OF SEQ ID NOS: 1068
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 999
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-915-740A-999

Query Match      98.4%; Score 2302; DB 5; Length 441;
Best Local Similarity 98.4%; Pred. No. 9e-212;
Matches 434; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MKKYLFRALYGTAAAILAACQSKSIQTFPQDTSVINGPDRPVGIPDPAGTTVGGGAV 60
Db 1 MKKYLFRALCGTAAAILAACQSKSIQTFPQDTSVINGPDRPVGIPDPAGTTVGGGAV 60

Qy 61 YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWODVCAQAFQTPVHSFOAKOFFER 120
Db 61 YTVVPHLSLPHWAAQDFAKSLQSFRLGCANLKNRQGWODVCAQAFQTPVHSFOAKOFFER 120

Qy 121 YFTPWQVAGNSLAGTGTGYEYEPVLKGDRTTAQARFPIYIGIPDDFISVPLPAGLRSGKA 180
Db 121 YFTPWQVAGNSLAGTGTGYEYEPVLKGDRTTAQARFPIYIGIPDDFISVPLPAGLRSGKA 180

Qy 181 LVRIQTKNSGTIDNTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQINGGAL 240
Db 181 LVRIQTKNSGTIDNTGGTHTADLSQFPITARTTAIKGRFEGSRFLPYHTRNQINGGAL 240

Qy 241 DGKAPILGYAEDPVELFFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300
Db 241 DGKAPILGYAEDPVELFFMHIOQSGRLKTPSGKYIRIGYADKNEHPVVSIGRYMADKGYL 300

Qy 301 KLQGTSMOGIKSYMRQNPQRLAEVLGQNPYSYIFRELGSNDGPGVCGALGTPLMGEYAGA 360
Db 301 KLQGTSMOGIKAYMQNPQRLAEVLGQNPYSYIFRELTSNDGPGVCGALGTPLMGEYAGA 360

Qy 361 VDRHYITLGAFLPVATAHPVTRKALNRLINMAQDTGSAIDGAVRDYFWGYGDEAGELAGK 420
Db 361 VDRHYITLGAFLPVATAHPVTRKALNRLINMAQDTGSAIKGAVRDYFWGYGDEAGELAGK 420

Qy 421 QKTTGYVWQLLPNGMKPEYRP 441
Db 421 QKTTGYVWQLLPNGMKPEYRP 441
```

```
RESULT 8
US-10-220-481-3
; Sequence 3, Application US/10220481
; Publication No. US20040110670A1
; GENERAL INFORMATION:
; APPLICANT: ARICO, Maria B., et al.
; TITLE OF INVENTION: Heterologous Expression of Neisserial Proteins
; FILE REFERENCE: CHIR-15883/01US
; CURRENT APPLICATION NUMBER: US/10/220,481
; CURRENT FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: PCT/IB01/00452
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 633
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 3
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: 919
US-10-220-481-3

Query Match      96.7%; Score 2262; DB 4; Length 440;
Best Local Similarity 97.3%; Pred. No. 6.2e-208;
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Qy 141 YEPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSGKALVRIQTGKNSGTIDNTGGT 200
|
Db 532 YEPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSGKALVRIQTGKNSGTIDNTGGT 591
|
Qy 201 HTADLSRFPITARTTAIKRFGESRFLPYHTRNQINGGALDGKAPILGYAEDPVELPFMH 260
|
Db 592 HTADLSRFPITARTTAIKRFGESRFLPYHTRNQINGGALDGKAPILGYAEDPVELPFMH 651
|
Qy 261 IQSGRLKTPSGKYIRIGYADKNEHPYVSIQRYMADKGYLKGOTSMQGIKSYMRQNPOR 320
|
Db 652 IQSGRLKTPSGKYIRIGYADKNEHPYVSIQRYMADKGYLKGOTSMQGIKSYMRQNPOR 711
|
Qy 321 LAEVLGQNPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITLGAPLFFVATAHPV 380
|
Db 712 LAEVLGQNPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITLGAPLFFVATAHPV 771
|
Qy 381 TRKALNRLIMAQDTGSAIDGAVRDYFWGYGDEAGELAGKQKTTGYVWQLLPNGMKPEYR 440
|
Db 772 TRKALNRLIMAQDTGSAIDGAVRDYFWGYGDEAGELAGKQKTTGYVWQLLPNGMKPEYR 831
|
Qy 441 P 441
|
Db 832 P 832

RESULT 11

US-10-220-481-89
; Sequence 89, Application US/10220481
; Publication No. US20040110670A1
; GENERAL INFORMATION:
; APPLICANT: ARICO, Maria B., et al.
; TITLE OF INVENTION: Heterologous Expression of Neisserial Proteins
; FILE REFERENCE: CHIR-15883/01US
; CURRENT APPLICATION NUMBER: US/10/220,481
; CURRENT FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: PCT/IB01/00452
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 633
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 89
; LENGTH: 832
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: deltaG287-919
US-10-220-481-89

Query Match 95.6%; Score 2236; DB 4; Length 832;
Best Local Similarity 99.5%; Pred. No. 4.8e-205;
Matches 419; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 21 QSKSIQTFFPDTSVINGDPRPVGIPDPAGTTVGGGAVTVVPHLSLPHWAAQDFAKS 80
|
Db 412 QSKSIQTFFPDTSVINGDPRPVGIPDPAGTTVGGGAVTVVPHLSLPHWAAQDFAKS 471
|
Qy 81 LQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFOAKQFFERYFTPWVAGNSLAGTVTG 140
|
Db 472 LQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFOAKQFFERYFTPWVAGNSLAGTVTG 531
|
Qy 141 YEPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSGKALVRIQTGKNSGTIDNTGGT 200
|
Db 532 YEPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSGKALVRIQTGKNSGTIDNTGGT 591
|
Qy 201 HTADLSRFPITARTTAIKRFGESRFLPYHTRNQINGGALDGKAPILGYAEDPVELPFMH 260
|
Db 592 HTADLSRFPITARTTAIKRFGESRFLPYHTRNQINGGALDGKAPILGYAEDPVELPFMH 651
|
Qy 261 IQSGRLKTPSGKYIRIGYADKNEHPYVSIQRYMADKGYLKGOTSMQGIKSYMRQNPOR 320
|
Db 652 IQSGRLKTPSGKYIRIGYADKNEHPYVSIQRYMADKGYLKGOTSMQGIKSYMRQNPOR 711
|
Qy 321 LAEVLGQNPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITLGAPLFFVATAHPV 380

Db 712 LAEVLGQNPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITLGAPLFFVATAHPV 771
|
Qy 381 TRKALNRLIMAQDTGSAIDGAVRDYFWGYGDEAGELAGKQKTTGYVWQLLPNGMKPEYR 440
|
Db 772 TRKALNRLIMAQDTGSAIDGAVRDYFWGYGDEAGELAGKQKTTGYVWQLLPNGMKPEYR 831
|
Qy 441 P 441
|
Db 832 P 832

RESULT 12

US-10-220-480-10
; Sequence 10, Application US/10220480
; Publication No. US20040092711A1
; GENERAL INFORMATION:
; APPLICANT: Chiron SpA
; TITLE OF INVENTION: Hybrid Expression of Neisserial Proteins
; FILE REFERENCE: P026783WO
; CURRENT APPLICATION NUMBER: US/10/220,480
; CURRENT FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: GB 0004695.3
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: GB 0027675.8
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 121
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 10
; LENGTH: 897
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: deltaG287NZ-919
US-10-220-480-10

Query Match 95.6%; Score 2236; DB 4; Length 897;
Best Local Similarity 99.5%; Pred. No. 5.4e-205;
Matches 419; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 21 QSKSIQTFFPDTSVINGDPRPVGIPDPAGTTVGGGAVTVVPHLSLPHWAAQDFAKS 80
|
Db 477 QSKSIQTFFPDTSVINGDPRPVGIPDPAGTTVGGGAVTVVPHLSLPHWAAQDFAKS 536
|
Qy 81 LQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFOAKQFFERYFTPWVAGNSLAGTVTG 140
|
Db 537 LQSFRLGCANLKNRQGWQDVCAQAFQTPVHSFOAKQFFERYFTPWVAGNSLAGTVTG 596
|
Qy 141 YEPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSGKALVRIQTGKNSGTIDNTGGT 200
|
Db 597 YEPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSGKALVRIQTGKNSGTIDNTGGT 656
|
Qy 201 HTADLSRFPITARTTAIKRFGESRFLPYHTRNQINGGALDGKAPILGYAEDPVELPFMH 260
|
Db 657 HTADLSRFPITARTTAIKRFGESRFLPYHTRNQINGGALDGKAPILGYAEDPVELPFMH 716
|
Qy 261 IQSGRLKTPSGKYIRIGYADKNEHPYVSIQRYMADKGYLKGOTSMQGIKSYMRQNPOR 320
|
Db 717 IQSGRLKTPSGKYIRIGYADKNEHPYVSIQRYMADKGYLKGOTSMQGIKSYMRQNPOR 776
|
Qy 321 LAEVLGQNPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITLGAPLFFVATAHPV 380
|
Db 777 LAEVLGQNPSYIFFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITLGAPLFFVATAHPV 836
|
Qy 381 TRKALNRLIMAQDTGSAIDGAVRDYFWGYGDEAGELAGKQKTTGYVWQLLPNGMKPEYR 440
|
Db 837 TRKALNRLIMAQDTGSAIDGAVRDYFWGYGDEAGELAGKQKTTGYVWQLLPNGMKPEYR 896
|
Qy 441 P 441
|
Db 897 P 897

```
RESULT 13
US-10-220-481-95
; Sequence 95, Application US/10220481
; Publication No. US20040110670A1
; GENERAL INFORMATION:
; APPLICANT: ARICO, Maria B., et al.
; TITLE OF INVENTION: Heterologous Expression of Neisserial Proteins
; FILE REFERENCE: CHIR-15883/01US
; CURRENT APPLICATION NUMBER: US/10/220,481
; PRIOR FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: PCT/IB01/00452
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 633
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 95
; LENGTH: 897
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: deltaG287NZ-919
US-10-220-481-95

Query Match          95.6%; Score 2236; DB 4; Length 897;
Best Local Similarity 99.5%; Pred. No. 5.4e-205;
Matches 419; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 21 CQSKIQTFFPDTSVINGPDRPVGIPDPAGTIVGGGAVTVVPHLSLPHWAAQDFAKS 80
Db 477 CQSKIQTFFPDTSVINGPDRPVGIPDPAGTIVGGGAVTVVPHLSLPHWAAQDFAKS 536

Qy 81 LQSFRLGCANLKNRGQWQDVCAQAFQTPVHSFQAKQFFERYFTPWQVAGNSLAGTVTGY 140
Db 537 LQSFRLGCANLKNRGQWQDVCAQAFQTPVHSFQAKQFFERYFTPWQVAGNSLAGTVTGY 596

Qy 141 YEPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSKALVRIQTGKNSGTIDNTGGT 200
Db 597 YEPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSKALVRIQTGKNSGTIDNTGGT 656

Qy 201 HTADLSRPPITARTTAIKRFEGRSFLPYHTNRQINGGALDGKAPILGYAEDPVELFFMH 260
Db 657 HTADLSRPPITARTTAIKRFEGRSFLPYHTNRQINGGALDGKAPILGYAEDPVELFFMH 716

Qy 261 IQGSLKTPSGKYIRIGYADKNEHPYVSIGRYMDKGYLKGOTSMQGIKSYMQRNPQR 320
Db 717 IQGSLKTPSGKYIRIGYADKNEHPYVSIGRYMDKGYLKGOTSMQGIKSYMQRNPQR 776

Qy 321 LAEVLGQNPYSYIFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITILGAPLFVATAHPV 380
Db 777 LAEVLGQNPYSYIFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITILGAPLFVATAHPV 836

Qy 381 TRKALNRLIMAQDTGSAIDGAVRVDFWGYGDEAGELAGKOKTTGYVWQLLPNGMKPEYR 440
Db 837 TRKALNRLIMAQDTGSAIKGAVRVDFWGYGDEAGELAGKOKTTGYVWQLLPNGMKPEYR 896

Qy 441 P 441
Db 897 P 897

RESULT 14
US-10-220-481-2
; Sequence 2, Application US/10220481
; Publication No. US20040110670A1
; GENERAL INFORMATION:
; APPLICANT: ARICO, Maria B., et al.
; TITLE OF INVENTION: Heterologous Expression of Neisserial Proteins
; FILE REFERENCE: CHIR-15883/01US
; CURRENT APPLICATION NUMBER: US/10/220,481
; CURRENT FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: PCT/IB01/00452
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 633
; SOFTWARE: SeqWin99, version 1.02

; SEQ ID NO 2
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-220-481-2

Query Match          95.2%; Score 2227; DB 4; Length 420;
Best Local Similarity 99.5%; Pred. No. 1.3e-204;
Matches 418; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 22 QSKIQTFFPDTSVINGPDRPVGIPDPAGTIVGGGAVTVVPHLSLPHWAAQDFAKSL 81
Db 1 QSKIQTFFPDTSVINGPDRPVGIPDPAGTIVGGGAVTVVPHLSLPHWAAQDFAKSL 60

Qy 82 QSFRLGCANLKNRGQWQDVCAQAFQTPVHSFQAKQFFERYFTPWQVAGNSLAGTVTGY 141
Db 61 QSFRLGCANLKNRGQWQDVCAQAFQTPVHSFQAKQFFERYFTPWQVAGNSLAGTVTGY 120

Qy 142 EPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSKALVRIQTGKNSGTIDNTGGTH 201
Db 121 EPVLKGDRTTAQARFPIYIPDDFISVPLPAGLRSKALVRIQTGKNSGTIDNTGGTH 180

Qy 202 TADLSRPPITARTTAIKRFEGRSFLPYHTNRQINGGALDGKAPILGYAEDPVELFFMH 261
Db 181 TADLSRPPITARTTAIKRFEGRSFLPYHTNRQINGGALDGKAPILGYAEDPVELFFMH 240

Qy 262 QGSLKTPSGKYIRIGYADKNEHPYVSIGRYMDKGYLKGOTSMQGIKSYMQRNPQR 321
Db 241 QGSLKTPSGKYIRIGYADKNEHPYVSIGRYMDKGYLKGOTSMQGIKSYMQRNPQR 300

Qy 322 AEVLGQNPYSYIFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITILGAPLFVATAHPV 381
Db 301 AEVLGQNPYSYIFRELAGSSNDGPGVAGLGTPLMGEYAGAVDRHYITILGAPLFVATAHPV 360

Qy 382 RKALNRLIMAQDTGSAIDGAVRVDFWGYGDEAGELAGKOKTTGYVWQLLPNGMKPEYR 441
Db 361 RKALNRLIMAQDTGSAIKGAVRVDFWGYGDEAGELAGKOKTTGYVWQLLPNGMKPEYR 420

RESULT 15
US-10-220-481-8
; Sequence 8, Application US/10220481
; Publication No. US20040110670A1
; GENERAL INFORMATION:
; APPLICANT: ARICO, Maria B., et al.
; TITLE OF INVENTION: Heterologous Expression of Neisserial Proteins
; FILE REFERENCE: CHIR-15883/01US
; CURRENT APPLICATION NUMBER: US/10/220,481
; CURRENT FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: PCT/IB01/00452
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 633
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 8
; LENGTH: 194
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: 919.pcp
US-10-220-481-8

Query Match          43.4%; Score 1015; DB 4; Length 194;
Best Local Similarity 99.5%; Pred. No. 9.3e-89;
Matches 193; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 239 ALDGKAPILGYAEDPVELFFMHIOGSLKTPSGKYIRIGYADKNEHPYVSIGRYMDK 298
Db 1 ALDGKAPILGYAEDPVELFFMHIOGSLKTPSGKYIRIGYADKNEHPYVSIGRYMDK 60

Qy 299 YLKGOTSMQGIKSYMQRNPORLAEVLGQNPYSYIFRELAGSSNDGPGVAGLGTPLMGEYA 358
Db 61 YLKGOTSMQGIKSYMQRNPORLAEVLGQNPYSYIFRELAGSSNDGPGVAGLGTPLMGEYA 120
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QY 359 GAVDRHYITLGAFLVATAPVTRKALNRLIMAQDTGSAIDGAVRVDFYFWGYGDEAGELA 418
Db 121 GAVDRHYITLGAFLVATAPVTRKALNRLIMAQDTGSAIKGAVRVDFYFWGYGDEAGELA 180
QY 419 GKQKTTGYVWQLLP 432
Db 181 GKQKTTGYVWQLLP 194

RESULT 16
US-10-415-017-2
; Sequence 2, Application US/10415017
; Publication No. US20040043456A1
; GENERAL INFORMATION:
; APPLICANT: Thonnard, Joelle
; TITLE OF INVENTION: BASB209 Polypeptides and Polynucleotides
; FILE REFERENCE: BM45427
; CURRENT APPLICATION NUMBER: US/10/415,017
; CURRENT FILING DATE: 2003-04-24
; PRIOR APPLICATION NUMBER: PCT/EP01/12391
; PRIOR FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: GB 0025997.8
; PRIOR FILING DATE: 2000-10-24
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 367
; TYPE: PRT
; ORGANISM: non-typeable Haemophilus influenzae
US-10-415-017-2

Query Match 13.5%; Score 316.5; DB 4; Length 367;
Best Local Similarity 24.5%; Pred. No. 2.6e-21;
Matches 117; Conservative 58; Mismatches 142; Indels 161; Gaps 16;

QY 1 MKKYLFRALYGIAAAILAACQSKSIQTFFPQDTSVINGDPRPVGIP-DPAGTTVGGGA 59
Db 2 LKPFWFKTFSISITALLVACTSNTKNT-----QIPTTNGSDPQFGA 45
QY 60 VYT-----VPHLSLPHWAA-----QDFAKSLQSFRLGCANLKNRQGVQDVCAQAFQT 107
Db 46 KYTNRTYQQTALVPVSVYENQSAVINQGFDTQL-----SNIKN-----84
QY 108 PVHSFOAKQFFERY--FTPMQVAG-----NGSLAGTVTGYEPLVK 146
Db 85 -YSSKLSNFDYDNEKTNWVLSGANINELTQFNIQPIQMRGDFGFQNVLMTGYYSPLY 143
QY 147 GDDRRTAQAARPIYIGIPDDFISVPLPAGLSRSGKALVRIRQTGKNSGTTIDNTGGTHTADLS 206
Db 144 ARHSPQGFKNPIYRMP-----SRAQIYAGALTGKLELAYSDSMLNFFLLGVQSGY 201
QY 207 RFPITARTTAIKGRFEGSRFLPYHTRNQINGALDGKAPILGYAEDPVELFFMHIOGSGR 266
Db 161 -----VKKRL-----SRAQIYAGALTGKLELAYSDSMLNFFLLGVQSGY 201
QY 267 LKTPSGKYIRIGYADKNEHPYVSIGRYMDKGYLKLQTSMQGKSYMRQNPORLAELVIG 326
Db 202 VDFGDNLNIFYAGQNGYPYTAIGRLLEDGEIPEKMSIQAIRENGNPNPSRVQSILLE 261
QY 327 QNPSYIIFRELAGSSND--GPV-GALGTPLMGEYAGAVDRHYITLGAFLFVAT-----376
Db 262 RNEAYVFFK-----NDPSGKVKSAGVPLVAMASVASDRNIIPSGSVLLVEVPDIDNNG 315
QY 377 ----AHPVTRKALNRLIMAQDTGSAIDGAVRVDFYFWGYGDEAGELAGKQKTTGYVWOL 430
Db 316 NWIGTHKL-----HLMVALDVGGAVKGH-HFDLYRGIGARAGHAGLSKHYGRVWL 366

RESULT 17
US-10-415-017-6
; Sequence 6, Application US/10415017
; Publication No. US20040043456A1
```

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; GENERAL INFORMATION:
; APPLICANT: Thonnard, Joelle
; TITLE OF INVENTION: BASB209 Polypeptides and Polynucleotides
; FILE REFERENCE: BM45427
; CURRENT APPLICATION NUMBER: US/10/415,017
; CURRENT FILING DATE: 2003-04-24
; PRIOR APPLICATION NUMBER: PCT/EP01/12391
; PRIOR FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: GB 0025997.8
; PRIOR FILING DATE: 2000-10-24
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 367
; TYPE: PRT
; ORGANISM: non-typeable Haemophilus influenzae
US-10-415-017-6

Query Match 13.5%; Score 316.5; DB 4; Length 367;
Best Local Similarity 24.5%; Pred. No. 2.6e-21;
Matches 117; Conservative 58; Mismatches 142; Indels 161; Gaps 16;

QY 1 MKKYLFRALYGIAAAILAACQSKSIQTFFPQDTSVINGDPRPVGIP-DPAGTTVGGGA 59
Db 2 LKPFWFKTFSISITALLVACTSNTKNT-----QIPTTNGSDPQFGA 45
QY 60 VYT-----VPHLSLPHWAA-----QDFAKSLQSFRLGCANLKNRQGVQDVCAQAFQT 107
Db 46 KYTNRTYQQTALVPVSVYENQSAVINQGFDTQL-----SNIKN-----84
QY 108 PVHSFOAKQFFERY--FTPMQVAG-----NGSLAGTVTGYEPLVK 146
Db 85 -YSSKLSNFDYDNEKTNWVLSGANINELTQFNIQPIQMRGDFGFQNVLMTGYYSPLY 143
QY 147 GDDRRTAQAARPIYIGIPDDFISVPLPAGLSRSGKALVRIRQTGKNSGTTIDNTGGTHTADLS 206
Db 144 ARHSPQGFKNPIYRMP-----SRAQIYAGALTGKLELAYSDSMLNFFLLGVQSGY 201
QY 207 RFPITARTTAIKGRFEGSRFLPYHTRNQINGALDGKAPILGYAEDPVELFFMHIOGSGR 266
Db 161 -----VKKRL-----SRAQIYAGALTGKLELAYSDSMLNFFLLGVQSGY 201
QY 267 LKTPSGKYIRIGYADKNEHPYVSIGRYMDKGYLKLQTSMQGKSYMRQNPORLAELVIG 326
Db 202 VDFGDNLNIFYAGQNGYPYTAIGRLLEDGEIPEKMSIQAIRENGNPNPSRVQSILLE 261
QY 327 QNPSYIIFRELAGSSND--GPV-GALGTPLMGEYAGAVDRHYITLGAFLFVAT-----376
Db 262 RNEAYVFFK-----NDPSGKVKSAGVPLVAMASVASDRNIIPSGSVLLVEVPDIDNNG 315
QY 377 ----AHPVTRKALNRLIMAQDTGSAIDGAVRVDFYFWGYGDEAGELAGKQKTTGYVWOL 430
Db 316 NWIGTHKL-----HLMVALDVGGAVKGH-HFDLYRGIGARAGHAGLSKHYGRVWL 366

RESULT 18
US-10-415-017-10
; Sequence 10, Application US/10415017
; Publication No. US20040043456A1
; GENERAL INFORMATION:
; APPLICANT: Thonnard, Joelle
; TITLE OF INVENTION: BASB209 Polypeptides and Polynucleotides
; FILE REFERENCE: BM45427
; CURRENT APPLICATION NUMBER: US/10/415,017
; CURRENT FILING DATE: 2003-04-24
; PRIOR APPLICATION NUMBER: PCT/EP01/12391
; PRIOR FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: GB 0025997.8
; PRIOR FILING DATE: 2000-10-24
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSEQ for Windows Version 4.0
```

Qy	61	YT-----VPHLSLPHWAA-----QDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTP	108
Db	47	YTNRTYQQTALVPVSVIENQSAVINQDGLTQL-----SNIKN-----	84
Qy	109	VHSFOAKQPFERY--FTPWQVAG-----NGSLAGTGTGYEPLVKG	147
Db	85	YSSKSLSTNFVDNYEKITNNVLSGANINELTQFNIPQIMRGDFQNVLMGTGYSPILYA	144
Qy	148	DDRRTAQARFPYIGIPDDFISVPLPAGLSKALVRIRQTGKNSGTIDNTGGTHTADLSR	207
Db	145	RHSPOGQFKNPIYRMP-----	160
Qy	208	FPITARTTAIKGRFEGSRFLPYHTRNQINGGALDGKAPILGYAEDPVELFFMHIOQSGLR	267
Db	161	-----VKREL-----SRAQIYAGALAGKLELAYSMSLENFLLGVQSGYV	202
Qy	268	KTPSGKYIRIGYADKNEHPVVISGRYMDKGYLKGOTSMQGIKSYMRONPQRLAEVLGQ	327
Db	203	DFGDGNLNFYAGQNGYPYTAIGRLLEDGEIPEKMSIQAIRESNRPNSRVOSLLER	262
Qy	328	NPSYIIFRELAGSSND--GPV--GALGTPLMGEYAGAVDRHYITLGAFLVAT-----	376
Db	263	NEAVVFFK-----NDPSGKVGSGVPLVAMASVADSNIIIPSGSVLLVEVPDIDNNG	316
Qy	377	---AHPVTRKALNRLIMAQDTGSAIDGAVRVDFYFWGYGDEAGELAGKQKTTGYVWOL	430
Db	317	WIGTHKL-----HLWALVDVGGAVKGH--HFDLYRGIGARAGHIAGLSKHYGRVWL	366
RESULT 20			
US-10-415-017-4			
; Sequence 4, Application US/10415017			
; Publication No. US20040043456A1			
; GENERAL INFORMATION:			
; APPLICANT: Thonnard, Joelle			
; TITLE OF INVENTION: BAS209 Polypeptides and Polynucleotides			
; FILE OF INVENTION: from Haemophilus Influenzae			
; FILE REFERENCE: BM45427			
; CURRENT APPLICATION NUMBER: US/10/415, 017			
; CURRENT FILING DATE: 2003-04-24			
; PRIOR APPLICATION NUMBER: PCT/EP01/12391			
; PRIOR FILING DATE: 2001-10-24			
; PRIOR APPLICATION NUMBER: GB 0025997.8			
; PRIOR FILING DATE: 2000-10-24			
; NUMBER OF SEQ ID NOS: 19			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 4			
; LENGTH: 367			
; TYPE: PRT			
; ORGANISM: non-typeable Haemophilus influenzae			
US-10-415-017-4			
Query Match 13.4%; Score 314.5; DB 4; Length 367;			
Best Local Similarity 24.9%; Pred. No. 4e-21;			
Matches 119; Conservative 57; Mismatches 142; Indels 159; Gaps 18			
Qy	1	MKKYLFRAALYGIAAAILAACOSKSIQTFFPQDTSVINGPDRPVGIPDPAGTIVGGGAV	60
Db	2	LKPFWEKTSISITALLVACTSNTKNT--OIPTTS--NGSD-----POOF-----GAK	46
Qy	61	YT-----VPHLSLPHWAA-----QDFAKSLQSFRLGCANLKNRQGWQDVCAQAFQTP	108
Db	47	YTNRTYQQTALVPVSVIENQSAVINQDGLTQL-----SNIKN-----	84
Qy	109	VHSFOAKQPFERY--FTPWQVAG-----NGSLAGTGTGYEPLVKG	147
Db	85	YSSKSLSTNFVDNYEKITNNVLSGANINELTQFNIPQIMRGDFQNVLMGTGYSPILYA	144
Qy	148	DDRRTAQARFPYIGIPDDFISVPLPAGLSKALVRIRQTGKNSGTIDNTGGTHTADLSR	207
Db	145	RHSPOGQFKNPIYRMP-----	160
US-10-415-017-8			
Query Match 13.5%; Score 315.5; DB 4; Length 367;			
Best Local Similarity 24.9%; Pred. No. 3.2e-21;			
Matches 119; Conservative 57; Mismatches 142; Indels 159; Gaps 18;			
Qy	1	MKKYLFRAALYGIAAAILAACOSKSIQTFFPQDTSVINGPDRPVGIPDPAGTIVGGGAV	60
Db	2	LKPFWEKTSISITALLVACTSNTKNT--OIPTTS--NGSD-----POOF-----GAK	46

```
Qy 208 FPITARTTAIKRFGESRFLPYHTRNQINGALDGKAPILGYAEDPPVELFFMHIIQSSRL 267
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 161 -----VKRL-----SRAQIYAGALAGKRELAYSMLLENFLILGVLGGSSYV 202
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 268 KTPSGKVIIRGYADKNEHPYVSGRYMADKGYLKGQTSMQGKSYMRQNPORLAELVIG 327
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 203 DFGDGNLNYFAYAGONGPYTAIGRLLEDGEIPKEKXSIQAIRESNRPNSRVQSLLER 262
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 328 NPSYIFPRELAGSSND-GPV-GALGTPLMGEYAGAVDRHYITLGAFLFVAT----- 376
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 263 NEAYVFK-----NDPSGKVGSGGVLPLVAMASVASDHNLIIPSGSVLLVEVPDIDNNGN 316
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 377 ---AHPVTRKALNRLIMAQDTGSAIDGAVRVDFYFWGYGDEAGELAGKQKTTGYWQL 430
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 317 WIGTHKL-----HLMVALDVGGAVKGH-HFDLYRGIGARAGHIAGLSKHYGRWVL 366

RESULT 21
US-10-220-481-9
; Sequence 9, Application US/10220481
; Publication No. US20040110670A1
; GENERAL INFORMATION:
; APPLICANT: ARICO, Maria B., et al.
; TITLE OF INVENTION: Heterologous Expression of Neisserial Proteins
; FILE REFERENCE: CHIR-15883/01US
; CURRENT APPLICATION NUMBER: US/10/220,481
; CURRENT FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: PCT/IB01/00452
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 633
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 9
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Escherichia coli
; US-10-220-481-9

      Query Match      10.2%; Score 238.5; DB 4; Length 196;
      Best Local Similarity 35.2%; Pred. No. 3.2e-14;
      Matches 68; Conservative 25; Mismatches 87; Indels 13; Gaps 6;

Qy 246 ILGYAEDPPVELFFMHIIQSGRLKTPSGKYIR-IGYADKNEHPYVSGRYMADKGYLKGQ 304
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 7 ILAYNSLMDNFIMDVQSGYIDFGDGSPLNFFSYAGKNGHAYRSIGKVLIDRGEVKED 66
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 305 TSMQGIKSYMRQNPQ-RLAEVLGONPSYIFPRELAGSSNDGPV-GALGTPLMGEYAGVD 362
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 67 MSMQAIIRHWGETHSEAEVRELLEQNPSFVFFK----PQSFAPVKGASAVPLVGRASVAD 122
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 363 RHYITLGAFLFVATAHPVTRKALN-----RLIMAQDTGSAIDGAVRVDFYFWGYGDEAGEL 417
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 123 RSIIPPGTTLAEVPLLDNNGKFGQYELRLMVALDVGGAIKGO-HFDIYQIGPEAGHR 181
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 418 AGKQKTTGYWQL 430
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 182 AGWNYHYGRWVL 194
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||

RESULT 22
US-10-450-763-54683
; Sequence 54683, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
```

```
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 54683
; LENGTH: 1118
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (670)..(718)
; OTHER INFORMATION: CHEMOTAXIS CHEW PROTEIN domain identified by eMATRIX,
; OTHER INFORMATION: accession number DM01794, p-value=1.000e-40, raw score of 26.50
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (664)..(803)
; OTHER INFORMATION: Chew-like domain identified by Pfam, accession name CheW, E-
; OTHER INFORMATION: value=6.5e-53, Pfam score of 189.2
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1118)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
; US-10-450-763-54683

      Query Match      9.6%; Score 225.5; DB 5; Length 1118;
      Best Local Similarity 35.7%; Pred. No. 6.9e-12;
      Matches 65; Conservative 22; Mismatches 82; Indels 13; Gaps 6;

Qy 257 FFMHIQSGRLKTPSGKYIR-IGYADKNEHPYVSGRYMADKGYLKGQTSMQGIKSYMR 315
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 935 FIMDVQSGYIDFGDGSPLNFFSYAGKNGHAYRSIGKVLIDRGEVKEDMSMQAIRHWGE 994
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 316 QNPQ-RLAEVLGONPSYIFPRELAGSSNDGPV-GALGTPLMGEYAGAVDRHYITLGAFLF 373
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 995 THSEAEVRELLEQNPSFVFFK----PQSFAPVKGASAVPLVGRASVASDSRIIPPGTTL 1050
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 374 VATAHPVTRKALN-----RLIMAQDTGSAIDGAVRVDFYFWGYGDEAGELAGKQKTTGYW 428
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 1051 AEVPLLDNNGKFGQYELRLMVALDVGGAIKGO-HFDIYQIGPEAGHRAGWNYHYGRVW 1109
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Qy 429 QL 430
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
Db 1110 VL 1111
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||

RESULT 23
US-10-450-763-59399
; Sequence 59399, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 59399
; LENGTH: 628
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (23)..(126)
; OTHER INFORMATION: PAD binding domain identified by Pfam, accession name
; OTHER INFORMATION: PAD_binding_2, E-value=5.6e-21, Pfam score of 76.2
; FEATURE:
; NAME/KEY: misc_feature
```


; LENGTH: 440
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_2866C.1.pep
US-10-424-599-206691

Query Match 4.7%; Score 111; DB 4; Length 440;
Best Local Similarity 21.6%; Pred.No. 0.18;
Matches 75; Conservative 47; Mismatches 96; Indels 130; Gaps 19;

QY	133	LACTVTGYEPEVLKGD-----	DRRTQAQRPPIYIGIPDDFTISVPLPAG-----	174
		:::	:::	
Db	158	LOGTVVLVFOAPEEGGAGAKKILDAGALDNVT--AIFGLHVPD-----	IPVGEVASRS 209	
		:::	:::	
QY	175	--LRSKGALVRIQTKNGSGTIDNTGCTHTA--DLSRFPITARTTAKRFEGRFLPYH 230		
		:::	:::	
Db	210	GPLSASGVFEAKISGK-----	GCHAAIPQLSIDPILATNVI-----	247
		:::	:::	
QY	231	TRNQINGALDGGKAPILGYAEDPVELFFMHIOGSGRLKTPSGKYIRIGYADKNBHPYVSI 290		
		:::	:::	
Db	248	-----ISLQHLVSREADPLDLTFAKLQG-----	GGAFIVI-----FPYVTI 283	
		:::	:::	
QY	291	GRYWDKGYLKLQTSMOGHSKSYMRQNQRLAEVLQG-----	NPSY-----	331
		:::	:::	
Db	284	G-----GTFRAFSGREKLEQLKQRIKQ-----	VVIGQAAVQRCNATVNFILDETRPSYPT 332	
		:::	:::	
QY	332	-----IPFRELAGSSNDGP--VGALGTPLMGE-----	YAGAVDRHYITLGAPLFPVATA 377	
		:::	:::	
Db	333	VNNGDLPKLFVDVAGNLL--GPNVNTEKTEPIMAAEDFAFQVEVPIPGVFIMLG-----	VKSA 387	
		:::	:::	
QY	378	HPVTRKALNR--LIMAQDT---GSAIDGAVRVDFWYMGDGEAGELACK 420		
		:::	:::	
Db	388	SPEPHQSLHSPYLKISEDALPYGAALHASLATSYYLLRYQQDVAKVWCK 435		
		:::	:::	

RESULT 26
US-10-282-122A-56343
; Sequence 56343, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22

Db 153 PIGRQRELIIGDROTKTAVAITFQKGNASDDDDKKLFCIYVAI-GQKST--VA 209
Qy 229 YHTRNQINGGALDGKAPILGVAEDPVELFFMHIOGSGRLKTPSGKYIRIGYADKNEHPYV 288
Db 210 QIVROLENGAMEYSIVVAATASEPAPLQFL-----APYT 244
Qy 289 --STGRYNADKGY-----LKLQOTSMOGIKSYMRONPORLAELVQNSYIYFF---- 334
Db 245 GCAMEYFRDNGMHAVIYVDDLSKQAVAYRQMSLLLRPPGREA-----YFGDVFLHSR 299
Qy 335 -RELAGSND---GPGVAGLGTPLMGAYAGVDRHYIT-----LQAPLFVAT--AHPVTR 382
Db 300 LLERAANKNDANGSSSLTAL--PILETQGDVSAIPIVNVISITDQIFLETNLPYQGI 357
Qy 383 KALNRLMAQDTGSA-----IDGAVRDY-----FWGYGDEAGELAGKQKTTGY 426
Db 358 PAINVGLSVRVGSSAQTAMKVKVSGSIKLELAQVREMAAFAQFGSDLD--ASTQKLN 415
Qy 427 VWQLLPNGMKPEYRP 441
Db 416 GARLTLLKQPOFSP 430

RESULT 29

US-10-282-122A-52178

; Sequence 52178, Application US/10282122A

; Publication No. US20040029129A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu

; APPLICANT: Zamudio, Carlos

; APPLICANT: Malone, Cheryl

; APPLICANT: Haselbeck, Robert

; APPLICANT: Ohlsen, Kari

; APPLICANT: Zyskind, Judith

; APPLICANT: Wall, Daniel

; APPLICANT: Trawick, John

; APPLICANT: Carr, Grant

; APPLICANT: Yamamoto, Robert

; APPLICANT: Forsyth, R.

; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA 034A

; CURRENT APPLICATION NUMBER: US/10/282,122A

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: 60/191,078

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23

; PRIOR APPLICATION NUMBER: 60/207,727

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: 60/230,335

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: 60/230,347

; PRIOR FILING DATE: 2000-09-09

; PRIOR APPLICATION NUMBER: 60/242,578

; PRIOR FILING DATE: 2000-10-23

; PRIOR APPLICATION NUMBER: 60/253,625

; PRIOR FILING DATE: 2000-11-27

; PRIOR APPLICATION NUMBER: 60/257,931

; PRIOR FILING DATE: 2000-12-22

; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-02-09

; PRIOR APPLICATION NUMBER: 60/269,308

; PRIOR FILING DATE: 2001-02-16

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614

; SOFTWARE: Patent in version 3.1

; LENGTH: 463

; TYPE: PRT

; ORGANISM: Clostridium botulinum

US-10-282-122A-52178

Query Match 4.4%; Score 102; DB 4; Length 463;

Best Local Similarity 22.0%; Pred. No. 1.4;

Matches 74; Conservative 51; Mismatches 121; Indels 90; Gaps 18;

Qy 129 GNSLAGVTVTGYPPVLKGGDRRTAQARFPYIGIPDDFISVPLPAGLRSGKALVRIOTG 188

Db 72 GEGEYVGLGHLDLVPEGDG-----WKYPYIG-----AEIHGKMYGR----- 110

Qy 189 KNSGTIDNTG-----GTHTADLSRFPITARTTAIKGRFE--GSRFLPYHTRNQ---IN 236

Db 111 ---GTTDDKGPIAALYGLKAIESKPLSKVRIILFGTNEETGSKETEHVLEKEKPPVL 167

Qy 237 GGALDGKAPILGYAEDPVLEF-----FHHIQSGRLKTPSGKYIRIGYADKNEHPVVISG- 291

Db 168 GFTPDAPYPII-YAEKGITIFDVVKVLEIKSKAIFL---KYIKGGEASNMVDPDYCEAGI 223

Qy 292 -----RYMADKGYLKLGTSMQGI-----KSYMRONPORL 321

Db 224 ECPDTMIIRSLRYCANRNGIELTAEEKGLLVIKSFGLSAHGSTPEIGKNAIMQFKPL 283

Qy 322 AEV-LG--QNPSYI--FPRELASSNDGPGVAGLGTPLMGGEYAGAVDRHYITIGAP-----L 372

Db 284 AELPLGHCDLQFIRFFNNVNETDGK--TFGVELEDEPSGKLSFNVTISMENNKIRM 341

Qy 373 FVATAHPVTRKALNRLMAQDTGSAIDG-AVRVDYF 407

Db 342 SLNLRYPVTVKSED---LMEXFNKKIDGTGIKVENF 374

RESULT 30

US-10-282-122A-55128

; Sequence 55128, Application US/10282122A

; Publication No. US20040029129A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu

; APPLICANT: Zamudio, Carlos

; APPLICANT: Malone, Cheryl

; APPLICANT: Haselbeck, Robert

; APPLICANT: Ohlsen, Kari

; APPLICANT: Zyskind, Judith

; APPLICANT: Wall, Daniel

; APPLICANT: Trawick, John

; APPLICANT: Carr, Grant

; APPLICANT: Yamamoto, Robert

; APPLICANT: Forsyth, R.

; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA 034A

; CURRENT APPLICATION NUMBER: US/10/282,122A

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: 60/191,078

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23

; PRIOR APPLICATION NUMBER: 60/207,727

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: 60/230,335

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: 60/230,347

; PRIOR FILING DATE: 2000-09-09

; PRIOR APPLICATION NUMBER: 60/242,578

; PRIOR FILING DATE: 2000-10-23

; PRIOR APPLICATION NUMBER: 60/253,625

; PRIOR FILING DATE: 2000-11-27

; PRIOR APPLICATION NUMBER: 60/257,931

; PRIOR FILING DATE: 2000-12-22

; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-02-09

; PRIOR APPLICATION NUMBER: 60/269,308

; PRIOR FILING DATE: 2001-02-16

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614

; SOFTWARE: Patent in version 3.1

```
; SEQ ID NO 55128
; LENGTH: 627
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-10-282-122A-55128

Query Match      4.4%; Score 102; DB 4; Length 627;
Best Local Similarity 22.1%; Pred. No. 2.1;
Matches 69; Conservative 39; Mismatches 114; Indels 90; Gaps 15;

Qy 77 FAKSLQSFRLGCANLKNRQGWQVCAQAFQTPVHSFOAKQF-PERYFTPWQVAGNGSLAG 135
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 63 FAKQAQAIQKRFPRSKIQTAFDLIYALAF-AAVLAFLIRQWFELYEVP----- 110
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 136 TVTGYEPEVLKGGDR-----RTAQAREPI---YGIPDDFIS-----VPLP--- 172
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 111 --TGSMPRTILEQDRILVSKTTFGLRPFPSNESIGYTPETITRGELVVFVVGDLPIFNAD 168
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 173 ---AGLRSGKALVRIRQTGKNSGTIDNTGG-THTADLSRFPITARTTAIKRFEGRFLP 228
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 169 TKYFGIIPGKKRYIKRCWKGPGDLYFYGGKIYGIDRNGVPIITKNT-----ENLYHIP 222
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 229 YHTRNQINGALDQKADILGYAEDPVELPFMHIQSGRLKTPSGKYIRIGYADKNEHPYV 288
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 223 YI-----SFDGVTEIVNHSDDQTDVIF-----NQFHTPCGKI-----SPPHY 259
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 289 SIGRYMADKGYLK-----LGQTSMQGIKSY-----MRQNPQRLAEVLGONPS 330
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 260 SHGQFFYKDAWHKDTPTYALKDLHTPELSYADLFGIKNFAMVRILTKKQALTHVL-SSPL 318
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 331 YIFFRELAGSSN 342
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 319 ADAYLEIAHTPN 330
Db   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

Search completed: December 30, 2005, 08:28:40
Job time : 167 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 30, 2005, 08:25:13 ; Search time 26 Seconds
(without alignments)
1402.307 Million cell updates/sec

Title: US-09-914-454b-31

Perfect score: 2340

Sequence: 1 MKKYLFRALYGIAAIIAA.....KTTGVVWLLPNCMKPEYRP 441

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/1/iaa/5_COMB.pep.*

2: /cgn2_6/ptodata/1/iaa/6_COMB.pep.*

3: /cgn2_6/ptodata/1/iaa/H_COMB.pep.*

4: /cgn2_6/ptodata/1/iaa/ECTUS_COMB.pep.*

5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep.*

6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	605.5	25.9	396	2	US-09-252-991A-19425
2	314.5	13.4	367	2	US-09-489-039A-10054
3	275	11.8	365	2	US-09-543-681A-6366
4	112	4.8	577	2	US-09-252-991A-25632
5	110.5	4.7	342	2	US-09-270-767-45316
6	102.5	4.4	1190	2	US-09-252-991A-21474
7	100	4.3	3562	2	US-09-679-279-14
8	98.5	4.2	543	2	US-09-902-540-15614
9	98.5	4.2	986	2	US-08-311-731A-2
10	98.5	4.2	1616	2	US-09-712-363-262
11	98	4.2	1053	2	US-09-252-991A-24665
12	98	4.2	3567	1	US-07-642-734C-4
13	98	4.2	3567	2	US-08-439-009A-4
14	97.5	4.2	457	2	US-09-252-991A-30850
15	96.5	4.1	1118	2	US-09-252-991A-32439
16	95.5	4.1	548	2	US-08-487-183A-12
17	95.5	4.1	1803	2	US-09-902-540-15978
18	95	4.1	1411	2	US-09-252-991A-23628
19	94.5	4.0	548	1	US-07-903-047-8
20	94.5	4.0	548	1	US-08-460-934-2
21	94.5	4.0	548	1	US-08-782-118-2
22	94.5	4.0	548	1	US-09-111-752-14
23	94.5	4.0	548	2	US-09-380-061B-16
24	94.5	4.0	548	2	US-08-487-183A-14
25	94.5	4.0	548	2	US-09-396-154-28
26	94.5	4.0	548	2	US-09-581-241A-4
27	94.5	4.0	548	2	US-09-581-241A-6

28	94.5	4.0	548	2	US-09-581-241A-8	Sequence 8, Appli
29	94.5	4.0	568	1	US-08-460-934-6	Sequence 6, Appli
30	94.5	4.0	568	1	US-08-782-118-6	Sequence 6, Appli
31	94.5	4.0	636	1	US-08-460-934-9	Sequence 9, Appli
32	94.5	4.0	636	1	US-08-782-118-9	Sequence 9, Appli
33	94.5	4.0	1569	2	US-09-711-164-312	Sequence 312, App
34	94	4.0	503	2	US-09-134-001C-4214	Sequence 4214, Ap
35	94	4.0	503	2	US-09-710-279-1810	Sequence 1810, Ap
36	93.5	4.0	548	2	US-09-602-628-10	Sequence 10, Appl
37	93.5	4.0	561	2	US-09-252-991A-20870	Sequence 20870, A
38	93.5	4.0	597	2	US-09-477-135A-129	Sequence 129, App
39	93	4.0	541	2	US-09-252-991A-27743	Sequence 27743, A
40	93	4.0	5087	2	US-09-144-085-1	Sequence 1, Appli
41	92.5	4.0	548	1	US-07-675-211-2	Sequence 2, Appli
42	92.5	4.0	548	1	US-07-903-047-2	Sequence 2, Appli
43	92.5	4.0	548	1	US-08-076-042-2	Sequence 2, Appli
44	92.5	4.0	548	2	US-09-380-061B-14	Sequence 14, Appl
45	92.5	4.0	548	2	US-09-396-154-27	Sequence 27, Appl

ALIGNMENTS

RESULT 1

US-09-252-991A-19425

; Sequence 19425, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 19425

; LENGTH: 396

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

; US-09-252-991A-19425

Query Match		25.9%;	Score 605.5;	DB 2;	Length 396;
Best Local Similarity		33.7%;	Pred No. 1e-54;		
Matches 143;		Conservative 60;	Mismatches 154;	Indels 67;	Gaps 10;
QY	15	AAIIAACOSKSIQTFPPQDTSVINGDPDRPVGIPDPAGTVGGGAVTVVPHLSLPHWAA	74		
DB	30	AALLTACD-----DGKEPP--PKPAEVT-----TNSVPMDALPATSD	66		
QY	75	QDFAKSLOSFLGCANLKNROGWQDVCAQAQTVPVHSFQAQFFERYTFPWV--AGNGS	132		
DB	67	ADLLAGFNWASACARLAKDPVWGEPCCASATTAADPTAVRAFLQRMQVYSLRSSNGD	126		
QY	133	LAGTVGYEVPVLKGGDRRTAAQAFPIYIGIPDDFISVPLPAGLRSGKALVRIRQTGKNSG	192		
DB	127	-QGLITGYEVPVYHGSLSQGEKTPVYGVDPDDLVALES-----VYPELKGK--	175		
QY	193	TIDTGGTHTADLSRFPITARTTAIKGRFEGSRFLPYHTRNQI--NGGALDGKAPILGYA	250		
DB	176	-----LGRLEGRVLKPYDDAATIRNGSS---APVLAWL	207		
QY	251	EDPVLPFMHTQSGRLKTPSGKYIRIGYADKNEHPYISIRYMAKDGKYLKLGQTSMQGI	310		
DB	208	GDPMDLQFLQIGSGRIQLEDGRLRIGYGQNGHPYKPVGRWLVEQGLVPKEEISMKRI	267		
QY	311	KSYMQRQPORLAELVGNQNPVSIFFEELAGSNDGVPVGAIGTPLMGEYAGAVDRHYITLGA	370		
DB	268	RDAEANPQRVSELLASNPVSFF--SLRPDSDESPRGSINVLPTDGYVSVALDKRVPLGS	326		

Db 244 AAGAGGAGHARCAAGAVARRSAGHLGRPARLALGLRPVWADRAAAGRLGAA---QRAG 300
Qy 97 WQDVCAQA---PQTPVHSGFAKQFFERYFTPMQVA-- 128
Db 301 LPWPAGRAAPAPARGAAHAGRASGIAGDRRLGAGAQHPLHLYRA---VPRQGRPGRLGGP 357
Qy 129 -----GNGLAGTGTGYEYVPLKGDRTTAQARPPYIGIPDFISV-----PLPAG 174
Db 358 GPAGIRQRGGNLAGRAGRAPAPAAADPGOPGAVRRGAGAVPGRSLELAGVRPPLG 417
Qy 175 L-----RSGKALVRI---ROTGNSTIDNTGGTHTA-----DLSRPP 209
Db 418 ADVWRGDAADRLGRRRGRGRRPGVDGRLGEPGHRRRSVGHWGVAALGQRDAALDP 477
Qy 210 ITARTTAIKRPEG-----SRF-----LPYHTRNQINGGALDGKAPILGYAEDPVELFF 258
Db 478 ATADRL---GRRAGLGQCRARPPRPARLPQGIVRAPESGAIDGAAP----- 521
Qy 259 MHIQSGRLKTPSGKYIRIGVADKN-----EHPYVIGRYMADKGYLKIGQTS 306
Db 522 ----GKGKKAAGLRTFIHLGYLDRSVSNIRHVEIPAVTMRSSAMQORNPISLRRTS 572

RESULT 5

US-09-270-767-45316
; Sequence 45316, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 45316
; LENGTH: 342
; TYPE: PRT
; ORGANISM: *Drosophila melanogaster*
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45316

Query Match 4.7%; Score 110.5; DB 2; Length 342;
Best Local Similarity 23.9%; Pred. No. 0.0076;
Matches 60; Conservative 25; Mismatches 107; Indels 59; Gaps 11;

Qy 8 AALGIAAAILAACQSKSIQTFPPQDPTSVINGPD-RPVGIIDPAGTTVGGGAVTVVPH 66
Db 58 ACTAFARAQFAACGGEGAQXQDDQLWVDSAEILRPVAPRAQOREGGASGDPTPKS 117
Qy 67 LSL---PHWA-----AQDFAKSLQSFRLGCANLKNRQGWQVCAQAFQTPVHSGFAKQFF 118
Db 118 LALQNHYYAGSDTSGEQEBELDSRYECA-----ICIDWLNPEVLITSCGHRFC 167
Qy 119 ERYFTPMQVAGN-----GSLAGTGTGYEYVPLKGDRTTAQARFP-----IYG-- 161
Db 168 RSLCTANWQKNQCCPMDBNKLRSARHLSGQ---LHAPDRATQARLPQALLAGLFGC 223
Qy 162 -----IPDDFISVPLPAGLSGKALV---RIRQTGNKSGTIDNTGG-----THYAD 204
Db 224 LAHRTASPSAQLSLAAAGAGGVEVPQDQVFCGPTRD--QSVGGAPQGRHAASHAD 281
Qy 205 LSRPPIATT 215
Db 282 ABAFOQTAT 292

RESULT 6

US-09-252-991A-21474
; Sequence 21474, Application US/09252991A
; Patent No. 6551795

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21474
; LENGTH: 1190
; TYPE: PRT
; ORGANISM: *Pseudomonas aeruginosa*
US-09-252-991A-21474

Query Match 4.4%; Score 102.5; DB 2; Length 1190;
Best Local Similarity 22.2%; Pred. No. 0.035;
Matches 76; Conservative 33; Mismatches 126; Indels 107; Gaps 18;

Qy 30 POPDTSVINGPDRPVGIP--DPA-----GTTVGGGAVTVVPHLSLPHMAAQDFA--- 78
Db 412 PYPDOA---NFSAEYWNPRNDPATWQHVMVYTLGLG-----LTTSLTSPKWEGSTYSGY 463
Qy 79 KSLQSFRLGCANLKNRQ-----WQ-----DVCQAQFQTPVHSGFAKQF 117
Db 464 DEIAAGRLSWFNASNNHNSNVYDLWHAAVNSRGEFFSADSPDLVAADFQILNRSKDL 523
Qy 118 -----FERYFTPMQVAGNSLAGTGTGYEYVPLKGDRTTAQARFP 158
Db 524 PASRPAISSLSQEDDTGDKLTFAYQTSFASDKNWAGDLTRY---SLTTQDKRATVTK-- 578
Qy 159 IYGIPTDDFISVPLPAGLSGKALVRIQTK-NSGTIDNTGGTHAD---LSRPPITAR 213
Db 579 LWSAQSLDAMP-----NGGAGRKIMWAGSGTSLKFTWGSLSADQORQLNRDPDRND 632
Qy 214 TTAIKR-----FEGSRFLP-----YHTRNQINGGALD-----GKAPILGYAEDPVELFF 258
Db 633 VADTKGQDRVAFRLGRDSKNSDNPRTRNSILGDIINSSPATVKGAKVLTLYLAQPIE--- 689
Qy 259 MHIQSGRLKTPSGKYIRIGVADKNEHPYVIGRYMADKGYL 300
Db 690 -----PSGNYSTFAEAQKTRAPRVYVG---ANDGML 717

RESULT 7

US-09-679-279-14
; Sequence 14, Application US/09679279
; Patent No. 6524841
; GENERAL INFORMATION:
; APPLICANT: McDaniel, Robert
; APPLICANT: Volchegursky, Yanina
; TITLE OF INVENTION: Recombinant Megalomicin Biosynthetic
; FILE REFERENCE: 300622004700
; CURRENT APPLICATION NUMBER: US/09/679,279
; CURRENT FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/158,305
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 60/190,024
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 3562
; TYPE: PRT
; ORGANISM: *Micromonospora megalomicea*
US-09-679-279-14

Query Match 4.3%; Score 100; DB 2; Length 3562;
Best Local Similarity 20.5%; Pred. No. 3.5;

Matches 104; Conservative 57; Mismatches 155; Indels 192; Gaps 28;

Qy	8	AALYGTAAATILACQSKSIQTFFPODTSVL---NGPDRPVGIPDPAGTIV-----	54
Dd	2752	AAVWG-----VLRCAQAES-----PDRFVLVDGDGPETPPAVPNPNQVAUARDGAVFVPRLT	2801
Qy	55	-----GGGVAYTV-----VPHLSLPHWAAODFAKSLQ-----SPR----	85
Dd	2802	PLACPVPADVADRAYRLVPGNGGSIEAFAFAPVPDADR-P-LAPEVRVAVRATGVNFDVL	2860
Qy	86	--LGCANLKNRQGWQDVCAQAFOTPVHSGFOAKOFFERYFTFMQVAGNSLAGVTGYEYP	143
Dd	2861	LALGMYPEPAEMGTE--ASGVVTEVGS-----GVRRFTPGQ-----AVTGLFQGAGFP	2906
Qy	144	VLGKDDRRTAQARFPIYGIDP-----DFISVPLP-----AGLRGKKALV-----RI	184
Dd	2907	VAVADHRL-----LTPVPDGWRVADAATAVPTAHTAHALHDLAGLOAQSVLVHAAA	2959
Qy	185	RQTGKNSTGTDNTGGTH---TAOLSRPP-----ITARTTAIKGRF---EGSRF	226
Dd	2960	GGVGMAAVALARRAGAEEVFATSPAKHFTTLRALGLDDDDHIASSREGFGERFAARTGCRG	3019
Qy	227	LPYHTRNOINGGALDGKAPILGYAEDPVELFWMHIOQSGLRKTPSGKYIRIGYADKNHEP	286
Dd	3020	VDV-VLNSLTGDLDD-----ESARLLADGGVFEVMGKTDLRPAE	3057
Qy	287	YVSIGRY-----MADKGYLKLQOTSMOGIKSYMQRONPORLAEVLGQNPSYIFFRELAGSSN	342
Dd	3058	QFR-GRYVPFDLAEAG-----PDRLGEIL-----	3080
Qy	343	DGPVGLAGTPLMEGYAGAVDRHYITL-----CAPLFVATAHPVTRKALNRLIMAQDTCSAI	398
Dd	3081	EUVGLLA-----AGALORLPVSWNELSAAP--AALTMSRGHRHVCKVLVTQPAPVHP	3131
Qy	399	DGAVRVDDYFWGYGDGAGELAGKQKTTCY	426
Dd	3132	DGT'VLVT---GGTGLTRLVARHLVTHGH	3156

RESULT 8

```

US-09-902-540-15614
; Sequence 15614, Application US/0902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 15614
; LENGTH: 543
; TYPE: PR1
; ORGANISM: Myxococcus xanthus
US-09-902-540-15614

```

Query Match

Best Local Similarity 19.5%; Pred. No. 0.28;

Matches 94; Conservative 59; Mismatches 158; Indels 171; Gaps 26;

Qy	14	AAAILAACQSKSTQTFPPDPTSVINGPDRPVGIPDPAGTTVGGGNAVTVVPHLSLPHWA	73
Db	13	ANWALAACG-----POBETS-----PEE-----TAPESQVPAGA	41
Qy	74	AODFAKSLQSLFRGLCANLKNRQGWQDVCAQAFQTPVHSPQAKQPFERYFTPMQ-VAGNGS	133
Db	42	VDDAAARAVADAARTNELNDAQPTK--AAGFNVPVSLIKALSYAE--TWHEHVRGEE	96

[illegible]

RESIT.T 9

US-08-311-731A-2
; Sequence 2, Application US/08311731A
; Patent No. 6583266
; GENERAL INFORMATION:
; APPLICANT: SMITH, DOUGLAS
; APPLICANT: MAO, JEN-I
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
; TITLE OF INVENTION: RELATING TO MYCOBACTERIUM TUBERCULOSIS AND LAPRAE FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 411
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WOLF, GREENFIELD & SACKS, P.C.
; STREET: 600 ATLANTIC AVENUE
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/311,731A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: GATES, EDWARD R.
; REGISTRATION NUMBER: 31,616
; REFERENCE/DOCKET NUMBER: C0044/7125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/720-3500
; TELEFAX: 617/720-2441
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 986 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEetical: YES
; ORIGINAL SOURCE:
; ORGANISM: MYCOBACTERIUM TUBERCULOSIS
US-08-311-731A-2

Db 181 QPGATPNSLGGVEGFHRTAQGFLVHAAAGVADQAQDIARCEAMGIVRRHPLVAR----- 235
QY 219 GREFSRFLPY--HTRNQINGGALDGKAPILGYAEDPVELFFWHIOGSGRLKTPSGKYIR 276
Db 236 -----GKDDAPAVGHGAVGVGKVDGQFELVGVGQAEVE-----IQKARL-----DRYAR 282
QY 277 I-GYADKNEHPYVSI-----RYMADKGYLKLQGT-----SMQGI-----K 311
Db 283 SQGMDQGVHPAQOVGVDRAGRIETLLAGEGKHPLGQVGAALGGLQVLQVGVGALVAGQ 342
QY 312 SYMRQ-----NPRLAELVGNQPSYI-----FFRELAG-----SSNDGPVGAULTPL 353
Db 343 AFLQOPEAADHROQVVVEVGHAAAGEVPQGIHLHLLGLEQLLAGPFPQAFGDFPDVGDV-TGY 401
QY 354 MGE-----YAGAVDRHYITLGRPLFVATAPVTRKALNRLINMAQDTGSAIDGAVRDY 406
Db 402 LGEADQPAIADVADRIDHH-----VGPEATAVLAHPA-----FLLETPF 440
QY 407 FWGYGDEAGELAG 419
Db 441 AFGGQQAAGRLAG 453

RESULT 12

US-07-642-734C-4
; Sequence 4, Application US/07642734C
; Patent No. 5824513
; GENERAL INFORMATION:
; APPLICANT: Katz, L
; APPLICANT: Donadio, S
; APPLICANT: Mcalpine, J B
; TITLE OF INVENTION: Recombinant DNA Method for Producing
; TITLE OF INVENTION: Erythromycin Analogs
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Edward H. Gorman
; STREET: Abbott Laboratories D377/AP6D-2 One Abbott
; CITY: Park Rd
; STATE: IL
; COUNTRY: US
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/642,734C
; FILING DATE: 17-JAN-91
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dancakers, Andreas M
; REGISTRATION NUMBER: 32652
; REFERENCE/DOCKET NUMBER: 4952.US.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-9396
; TELEFAX: 708-938-2623
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3567 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-642-734C-4

Query Match 4.2%; Score 98; DB 1; Length 3567;
Best Local Similarity 21.9%; Pred. No. 5.7;
Matches 106; Conservative 50; Mismatches 144; Indels 184; Gaps 29;
QY 8 AALYGIARAILAACQSKSIQTFFPDPTSVING-----PDRP-----VGIPD----- 48
Db 2759 AAMWG----VIRCAQAESPDRLVLLDTPDAEFGMLPAVDPNPQLALRGDDVFPRLSLAP 2814

QY 49 -----PAGT--TVGGGAVVTV-----VPHLSLPHWAAQ-----DPAKSLQSPR-----LGCA 89
Db 2815 SALTLPAGTORLVPDGAIDSAVAFEPAPDVEQPLRAGEVRVDVVRATGVNFRDVLALGMY 2874
QY 90 NLKNRQGMQDV-CAQAFQTPVHSFOAKOFFERYFTPMQVAGNSLAGTGTGTYGYPVLKGD 148
Db 2875 POKADMGTAAAGVVTAVGPDVDAF-----APGDRVLGLFQGAFAPIAVTD 2919
QY 149 DRRTAQARFPIYGIPD-----DPTISVPLP-----AGLSRGK----- 179
Db 2920 HRLLAR-----VPDGSWDADAAPVIAVTTAHYALHDLAGLRGOSVLIHAAAGVGVM 2972
QY 180 -ALVRIROQTG-----KNSGTIDNTG--GTHTADLSRFPITARTAIKGRFE---GS 224
Db 2973 AVALARRAGAEVLATAGPAKHGTILRALGLDDEHIA-----SSRETGPARKFRRTGG 3025
QY 225 RFUPYHTRNQINGALDGKAPILGYAEDPVELFPMHTQSGRLKTPSGKYIRIGYAKNE 284
Db 3026 RGVDV-VLNSLTGELLDESADLL--AED-----GVFVEMCKTDLRD 3063
QY 285 HPVYSIGRYMADKGYLKLQGTSMQGIKSYMRQNPORLAELVGNQPSVIFRELAGSSNDG 344
Db 3064 -----AGDFRGYAPFDLGEA-----GDRLGEIL-----REV----- 3091
QY 345 PVGALGTPLMGEVAGAVDRHYIT--LG-APLFVATAHPVTRKALNRLINMAQDTGSAIDG 400
Db 3092 -VGLLG-----AGELDRLPVSAWELGSAP--AALQHMGRGHRVGKLVLTQAPAPVDPG 3141
QY 401 AVR 404
Db 3142 TVLI 3145

RESULT 13

US-08-439-009A-4
; Sequence 4, Application US/08439009A
; Patent No. 6004787
; GENERAL INFORMATION:
; APPLICANT: Donadio, S
; APPLICANT: Katz, L
; APPLICANT: Mcalpine, J B
; TITLE OF INVENTION: Method of Directing Biosynthesis of
; TITLE OF INVENTION: Specific Polyketides
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Steven F. Weinstein
; STREET: Abbott Laboratories D377/AP6D-2 One Abbott
; CITY: Park Rd
; STATE: IL
; COUNTRY: US
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/439,009A
; FILING DATE: 11-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Casuto, Dianne
; REGISTRATION NUMBER: 40,943
; REFERENCE/DOCKET NUMBER: 4952.US.D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847-938-3137
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3567 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-439-009A-4

Query Match 4.2%; Score 98; DB 2; Length 3567;
Best Local Similarity 21.9%; Pred. No. 5.7;
Matches 106; Conservative 50; Mismatches 144; Indels 184; Gaps 29;

QY 8 AALYGIAAAILAACQSKSIQTTPDPTSVING-----PDRP-----VGIPD----- 48
Db 2759 AMWG-----VIRCAQAESPDREVLDDTDAEPCMLPAVDPNPQALRGDDVFVPLSPLAP 2814
QY 49 -----PAGT--TVGGGGAVYTV-----VPHLSLPHWAAQ---DFAKSLQSF-----LGCA 89
Db 2815 SALTIPAGTQRLVPGDGAIDSVAFEPADPVEQPLRAGEVRVDVRAVGNFRDVLALGMY 2874
QY 90 NLKNRQGMQDV-CAQAFQTPVHSHFOAKOFFERYFTFPWQVAGNGSLAGTVTYGYPEVLKGD 148
Db 2875 PQKADMGTEAAGVTVAVGPDVDAF-----APCDRLVGLFQGAFAPIAVTD 2919
QY 149 DRRTAQARPPYIGIPD-----DFISVPLP-----AGLRSGK----- 179
Db 2920 HELLAR-----VPDGSADADAAPVPIAYTTAHVALHDLAQLRAGQSVLIHAAAGVGM 2972
QY 180 -ALVRIQTG-----KNSGTTDNTG--GTHTADLSRFPITARTTAIKGRFE---GS 224
Db 2973 AVALARAGAEVLATAGPAKHGTLRALGLDDEHIA-----SSRETGFARKFRERTGG 3025
QY 225 RFLPYHTNRQINGGALDGKAPILGYAEDPPVELFFMHIOGSGRLKTPSGKYIRIGYADKNE 284
Db 3026 RGVGV-VLNSLTGELLDESADLL--AED-----GVFVEMGKTDLRD 3063
QY 285 HPYVSGRYMADKGYLKLQTSMOGKSYMRONPORLAFLVQNPSTYIFPRELAGSSNDG 344
Db 3064 -----AGDFRGRYAPFDLGEA-----GDDRLGEIL-----REV----- 3091
QY 345 PVGALGTPLMGEYAGAVDRHYIT---LG-APLFAVATAHPVTRKALNRLIQAOTGSAIDG 400
Db 3092 -VGLLG-----AGELDRLPVSAWELGSAP--AALQHMRSRGRHVGVKLVLTQPAFVDPDG 3141
QY 401 AVR 404
Db 3142 TVLI 3145

RESULT 14
US-09-252-991A-30850
; Sequence 30850, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30850
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30850

Query Match 4.2%; Score 97.5; DB 2; Length 457;
Best Local Similarity 19.7%; Pred. No. 0.27;
Matches 69; Conservative 50; Mismatches 141; Indels 91; Gaps 13;
QY 124 PWOVAGNSLAGTVTYGYPEVLKGDRTTAQARFPYIGIPDDFISVPLPAGLRSGKALVR 183
Db 153 PDVGVDEGLAGLDHRHRTTAARLADRHAPHGTTLRALHRCALRHPHGLGGRATR---- 208

QY 184 IROTKNSGTIDNTGGTHTADLSRFPITARTTAIKG---RFEGRSLPYPYHTRNQINGGAL 240
Db 209 -RPAGTEAAMIEISGVHKA-YGQEV-----VKGVDLRVDKGEVL-----SIIGSG 254
QY 241 DGKAPILGYAE--DPVELFFMHIOG-----SGRLKTPSGKYIRIGYADKNEHPYVS 289
Db 255 SGKSTLLMCINGLEPIQGRSIRVDGIDVHARGTDLNLR-----RKIGIVFOQWNAFFHLT 310
QY 290 1-----GRYMAKGYLKLQTSMOGKSYMRONPORL-----AEVLGQ 327
Db 311 VLENVMLAPRKVLGKSRAEAEAMALKQLTHVGLGDKLVKFFORLSGGQQOORMAIARALAM 370
QY 328 NPSYIFFRELAGSSNDGPVGLGTPLMGEYAGAVDRHYITLGAFLFVATAHPVTRKALNR 387
Db 371 SPEYMLF-----DEATSALDPQLVGE-----VVDTRMLAEERGTM 406
QY 388 LIMAQDTGSAIDGAVRVDFWGYGDEAGELAGKQKTTGYVWOLLNPKMKPE 438
Db 407 VLVTHIEIRFARDVSDRVAFERN-----GLVHEIGTPDQVIGNPORPE 448
RESULT 15
US-09-252-991A-32439
; Sequence 32439, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32439
; LENGTH: 1118
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32439

Query Match 4.1%; Score 96.5; DB 2; Length 1118;
Best Local Similarity 23.2%; Pred. No. 1.4;
Matches 76; Conservative 45; Mismatches 138; Indels 69; Gaps 18;
QY 76 DPAKS---LQSFRLGCANLKNRQWQDVCAQAFQT-----PVHSFOAKQFFERY--- 121
Db 314 DFPASRLSRVRAALLSLAMAAGAAPLCASAAEAHARPAIAPAGQLGVDLNRFARE 373
QY 122 -----FTPMQVAGNGS--LAGTVTYGYPEVLKGDRTTAQARFPYIGIPD-DFISVPLP 172
Db 374 AGITLSAIPAQTGGYSSQGLSGSFT-----VOOGLARLLADTPLEAEDGDSFVLREAP 428
QY 173 AGLRSKAL-----VRIQTGNSGTIDNTGGTHTADLSRFPITARTTAIKRFEGRFLP 228
Db 429 A--KDGVDLNMQAVEVFALGNLNGSTDGLVATHS-----QIATKTS--KPLETSQTVS 478
QY 229 YHTRNQINGGALDGKAPILGYAEDPVELFFMHIOGSGRLKTPSGKYIRI-GYADKN-EHP 286
Db 479 VITREQIDDTASKTVQQAMRYTPG---IFTQGVGASNRY-----DYVVMRGFADNSVDNI 530
QY 287 VYSIGRYMADKGYLKLQTS-----MOCIKS--YMRONPORLAELVGNQNPSTYIFPR 335
Db 531 YLDGLKAMGDSGTFFSSMQVDPFYLERIDVLKGPSSVLYGRSLPGLVALTSKKPLYEDYR 590
QY 336 ELAGSSNDGPVGLGTPLMG-EYAGAVD 362
Db 591 QITGS-----IGNMGQKEMGDFDSGPLD 613


```
Db 925 VYQEGMILSPDG 937
||:| | | |
; TITLE OF INVENTION: Luciferase Of Firefly
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; APPLICATION NUMBER: US/07/903,047
; FILING DATE: 19920623
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mirock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 7005-048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 790-3090
; TELEFAX: 212 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 548 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; US-07-903-047-8

Query Match 4.1%; Score 95; DB 2; Length 1411;
Best Local Similarity 21.8%; Pred. No. 2.8;
Matches 97; Conservative 42; Mismatches 127; Indels 178; Gaps 25;

Qy 7 RAALYGTAA-ALLAQCQSKTQTPQP-----DTSVINGPDRPVGIPDPAGTIVGGGAV 60
Db 590 RQVLVGLGAEGRLASLAEQCCERLARPGRAAQDQGVDEADQPLGL--QALAVGAGHA- 645
Qy 61 YTVVPHLSLPHWAQDFAKSLQS-----FRLGCANLKNRQGWQDVCAQAFQTPVHSF 112
Db 646 ---DADLALPAVAAQORLEREQPHEDRLMVQRLAD-SPRQGFVD-----688
Qy 113 QAKOFFERYFTWQVAGNG-----SLAGTVTVGYEPVLKGGDRRTAQAARFPIYIPDDFIS 168
Db 689 -----PQAVARGRRLLARRMVGQFQ-----HRRRVAQA-FP-----721
Qy 169 VPLPAGLRSGKALVRIRO--TGKNSGTIDNTGGTHTADLSRFPITARTTALKRFGESR 225
Db 722 ---PVGQLAG-ALARVQPLPGLSELGV-----QFQ---749
Qy 226 FLPHYTRNQINGGALDGKAPILGYAEDDPVELFFWHI-----QSGRLKTPSGKYI 275
Db 750 -----RRQV-----GLAAGFGVEPREFVEQVQVORPTTGDDVMQGDPELVL---LFV 794
Qy 276 RIGYADKNEHPYVSGIRYMADKYLKLGQTSMQGKSYMRONPQRLAEVLQONPSYIFFR 335
Db 795 QAQADPQORLPQVER-----LLRLGFAALRG-----SRGAPVLQOR-----832
Qy 336 ELAGSSNDGPVGLGTPLMGYAGAVDRHYTL-----GAPLFVATAHPVTRKAL 385
Db 833 ---GEVDLP-----GLAPLVD-----TLQGRAVLEBTRAQRFVAFDQPLEAGAQ 876
Qy 386 NRLI-----MAQDTGSAIDGAVRVD 405
Db 877 RRFVQLAAQAAGDVVGALRID 900

RESULT 19
US-09-914-454b-31.ra1
; Sequence 8, Application US/07903047
; Patent No. 5229285
; GENERAL INFORMATION:
; APPLICANT: Kajiyama, Naoki
; APPLICANT: Nakano, Eiichi
; TITLE OF INVENTION: Thermostable Luciferase Of Firefly,
; TITLE OF INVENTION: Thermostable Luciferase Gene Of Firefly, No. 5229285el Recombi
; TITLE OF INVENTION: DNA, And Process For The Preparation Of Thermostable
```

```
; TITLE OF INVENTION: Luciferase Of Firefly
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; APPLICATION NUMBER: US/07/903,047
; FILING DATE: 19920623
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mirock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 7005-048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 790-3090
; TELEFAX: 212 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 548 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; US-07-903-047-8

Query Match 4.0%; Score 94.5; DB 1; Length 548;
Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

Qy 24 KSIQTFPQPTSVINGPDRPVGIP-----LSPHMAADFAKSLQSFRLGCANLKNRQGWQDVCAQAF 105
Db 184 KTVENRKEQVALIMNSGSGTGLPKGVQLTHENAVTRFSHARDPIYGNQVSPGTAILTV 243
Qy 65 PH-----LSPHMAADFAKSLQSFRLGCANLKNRQGWQDVCAQAF 105
Db 244 PFHFGMFTTGLYLTGCGFRIVMLTKPDEETFLKTDQYK-----CSSVI 288
Qy 106 QTPV--HSFQAKQFFERY--FTPMQVAGNSLAGTVTVGYEPVLKGGDRRTAQAARFPIY 161
Db 289 LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 337
Qy 162 IPDDFISVPLPAGLRSGKALVRIROTKN-----SGTIDNTGGTHTADLSRFPITARTTAI 217
Db 338 VRQY-----GLTETTSALITTPGDDKPGASGVVPLFKAKVIDLD-----TKTLGP 386
Qy 218 KGRFEGSRFLPHYTRNQINGGALDGKAPIL--GYAEDPVELFFWHIQQSGRLKTPSGKYI 275
Db 387 NRR-----GEVCVKGEPLMKGVVNDP-EATREIIDEEGMLHTGD---424
Qy 276 RIGYADKNEHPYV-----SIGRYMADKYLKLGQTSMQGKSYMRONPQRLAEVLQONPS 330
Db 425 -IGYDEEKHFVVDRLKSLIKY---RGY-----QVPPAELESVLLQHPN 465
Qy 331 YIFPRELAGSSNDGPVGLGTPLMGYAGAVDRHYTLGAPLFVATAHPVTRKALNRLIM 390
Db 466 -IF-----DAGVAGVDPDPINGELPGAV-----VVLEKGSMTKEVMDYVA 505
Qy 391 AQ-DTGSALDCAVRVDYFWGYGDE-----AGELAGK 420
Db 506 SQVSNAKRLRGVVR-----FVDEVPKGLTGKIDKG 535

RESULT 20
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Query Match 4.0%: Score 94.5: DB 1: Length 548:

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; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; ORGANISM: Luciola lateralis
; US-08-782-118-2

Query Match      4.0%; Score 94.5; DB 1; Length 548;
Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

Qy 24 KSIQTFPPQDTSVINGPDRPVGIP-----DPA-GTTVGGGAVYTV 64
Db 184 KTVENRKEQVALIMSSGSTGLPKGVQLTHENLVIRFSHARDPIYGNQVSPGTAILTV 243
Qy 65 PH-----LSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAF 105
Db 244 PFHGFQGMFTTLGYLTCGFRIVMLTKFDEETFLKTLQDYK-----CSSVI 288
Qy 106 QTPV--HSFOAQKFFERY--FTPMQVAGNSLAGTGTGTYEYEPVLKGDRTTAQARFFIYG 161
Db 289 LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 337
Qy 162 IPDDFISVPLPAGLRSGKALVRIQTGKN-----SGTIDNTGGTHTADLSRPPITARTAI 217
Db 338 VRQY-----GLTETTSALIIITPEGDDKPGASGVVPLFKAKVIDLD-----TKKTILGP 386
Qy 218 KRGEGSRFLPYHTNRQINGALDGKAPIL--GYAEDPVELFFMHIOQSGRLKTPSGKYI 275
Db 387 NRR-----GEVCVKGPMLMKGYVDNP-EATREIIDEGWHLHTGD-----424
Qy 276 RIGYADKNEHPYV-----SIGRYMADKGYLKGTSMOGKSYMRQNPQRLAEVLGNPS 330
Db 425 -IGYDEKHFIVDRLSLKY--KGY-----QVPPAELESVLLQHPN 465
Qy 331 YIFPRELAGSNDGPVGALGTPLMGEYAGVDRHYITLGAPLFVATAPVTRKALNRLIM 390
Db 466 -IF-----DAGVAGVPDPIAGELPGAV-----VLEKKGKSMTEKEVMDYVA 505
Qy 391 AQ-DTGSALDGAVRVDYFWGYGDE-----AGELAGK 420
Db 506 SQVSNAKRLRGVR-----FVDEVKPKGLTGKIDGK 535

RESULT 22
US-09-111-752-14
; Sequence 14, Application US/09111752
; Patent No. 6074859
; GENERAL INFORMATION:
; APPLICANT: HIROKAWA, KOZO
; APPLICANT: KAJIYAMA, NAOKI
; APPLICANT: MURAKAMI, SEIJI
; TITLE OF INVENTION: MUTANT-TYPE BIOLUMINESCENT PROTEIN, AND
; TITLE OF INVENTION: PROCESS FOR PRODUCING MUTANT-TYPE LUMINESCENT PROTEIN
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/111,752
; FILING DATE: 08-JUL-1998
; CLASSIFICATION: 435

;
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 7126-0009-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 548 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-09-111-752-14

Query Match      4.0%; Score 94.5; DB 2; Length 548;
Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

Qy 24 KSIQTFPPQDTSVINGPDRPVGIP-----DPA-GTTVGGGAVYTV 64
Db 184 KTVENRKEQVALIMSSGSTGLPKGVQLTHENLVIRFSHARDPIYGNQVSPGTAILTV 243
Qy 65 PH-----LSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAF 105
Db 244 PFHGFQGMFTTLGYLTCGFRIVMLTKFDEETFLKTLQDYK-----CSSVI 288
Qy 106 QTPV--HSFOAQKFFERY--FTPMQVAGNSLAGTGTGTYEYEPVLKGDRTTAQARFFIYG 161
Db 289 LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 337
Qy 162 IPDDFISVPLPAGLRSGKALVRIQTGKN-----SGTIDNTGGTHTADLSRPPITARTAI 217
Db 338 VRQY-----GLTETTSALIIITPEGDDKPGASGVVPLFKAKVIDLD-----TKKTILGP 386
Qy 218 KRGEGSRFLPYHTNRQINGALDGKAPIL--GYAEDPVELFFMHIOQSGRLKTPSGKYI 275
Db 387 NRR-----GEVCVKGPMLMKGYVDNP-EATREIIDEGWHLHTGD-----424
Qy 276 RIGYADKNEHPYV-----SIGRYMADKGYLKGTSMOGKSYMRQNPQRLAEVLGNPS 330
Db 425 -IGYDEKHFIVDRLSLKY--KGY-----QVPPAELESVLLQHPN 465
Qy 331 YIFPRELAGSNDGPVGALGTPLMGEYAGVDRHYITLGAPLFVATAPVTRKALNRLIM 390
Db 466 -IF-----DAGVAGVPDPIAGELPGAV-----VLEKKGKSMTEKEVMDYVA 505
Qy 391 AQ-DTGSALDGAVRVDYFWGYGDE-----AGELAGK 420
Db 506 SQVSNAKRLRGVR-----FVDEVKPKGLTGKIDGK 535

RESULT 23
US-09-380-061B-16
; Sequence 16, Application US/09380061B
; Patent No. 6265177
; GENERAL INFORMATION:
; APPLICANT: SQUIRELL, DAVID JAMES
; WHITE, PETER JOHN
; LOWE, CHRISTOPHER ROBIN
; MURRAY, JAMES AUGUSTUS HENRY
; TITLE OF INVENTION: ENZYME ASSAY FOR MUTANT FIREFLY LUCIFERASE
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/380,061B
FILING DATE: 25-Aug-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB98/01026
FILING DATE: 7-APR-1998
APPLICATION NUMBER: GB 9707468.8
FILING DATE: 11-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: SADOFF, B. J.
REGISTRATION NUMBER: 36,663
REFERENCE/DOCKET NUMBER: 124-725
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)816-4000
TELEFAX: (703)816-4100
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 548 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 16:

Query Match 4.0%; Score 94.5; DB 2; Length 548;
Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

```
QY 24 KSIOTFPQDTSVINGDPRVGP-----DPA-GTTVGGGAVTVV 64
DB 184 KTVENRKEQVALIMSSSGTGLPKGVQLTHENAVTRFSHARDPIYGNQVSPGTAILTVV 243
QY 65 PH-----LSLPHWAAQDFAKLSQSFRLGCANLKNRQGWQDVCAQAF 105
DB 244 PFHHGFMFTTGLYTCGFRIVMLTKFDEETFLKTLQDYK-----CSSVI 288
QY 106 QTPV--HSFOAKQFFERY--FTPQVAGNSLAGTVGYEYEPVLKGDRTTAQARFPIYG 161
DB 289 LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLPG 337
QY 162 IPDDFISVPLPAGLRSGKALVRIRQTGKN---SGTIDNTGGTHTADLSRFPITARTAI 217
DB 338 VRQY-----GLTETTSAILIITPEGDDKPGASGKVVPFLKAKVIDLD---TKTLGP 386
QY 218 KGRFEGSRFLPYHTRNQINGALDGKAPIL--GYAEDPVLFPMHIOGSGRLKTPSGKYI 275
DB 387 NRR-----GEVCVKGPMLMKGYVDNP-EATREIIDEEGWLHTGD---424
QY 276 RIGYADKNEHPYV-----SIGRYMADKGYLKGQTSMQGIKSYMRQNPQRLAEVLGNPS 330
DB 425 -IGYDEKHEFFIVDRLSLIKY---KGY-----QVPPAESVLLQHPN 465
QY 331 YIFPRELAGSNDGPVGLGTPLMGEYAGVADRHYITLGLAPLFVATAHPVTRKALNRLIM 390
DB 466 -IF-----DAGVAGVDPDPIAGELPGAV-----VVLEKGSMTKEVMDYVA 505
QY 391 AQ-DTGSAGIDGAVRDYFWGCGDE-----AGELAGK 420
DB 506 SQVSNAKRLGGVR-----FVDEVPKGLTGKIDGK 535
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RESULT 24

US-08-487-183A-14
Sequence 14, Application US/08487183A
Patent No. 6387675
GENERAL INFORMATION:
APPLICANT: WOOD, Keith V.
APPLICANT: GRUBER, Monika G.
TITLE OF INVENTION: MUTANT LUCIFERASES

NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: P.O. Box 1497
CITY: Madison
STATE: WI
COUNTRY: USA
ZIP: 53701-1497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,183A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/467,773
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/177,081
FILING DATE: 03-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Scanlon, William J.
REGISTRATION NUMBER: 31,136
REFERENCE/DOCKET NUMBER: 19017/166
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608)258-5035
TELEFAX: (608)258-4258
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 548 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-487-183A-14

Query Match 4.0%; Score 94.5; DB 2; Length 548;
Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

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QY 24 KSIOTFPQDTSVINGDPRVGP-----DPA-GTTVGGGAVTVV 64
DB 184 KTVENRKEQVALIMSSSGTGLPKGVQLTHENAVTRFSHARDPIYGNQVSPGTAILTVV 243
QY 65 PH-----LSLPHWAAQDFAKLSQSFRLGCANLKNRQGWQDVCAQAF 105
DB 244 PFHHGFMFTTGLYTCGFRIVMLTKFDEETFLKTLQDYK-----CSSVI 288
QY 106 QTPV--HSFOAKQFFERY--FTPQVAGNSLAGTVGYEYEPVLKGDRTTAQARFPIYG 161
DB 289 LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLPG 337
QY 162 IPDDFISVPLPAGLRSGKALVRIRQTGKN---SGTIDNTGGTHTADLSRFPITARTAI 217
DB 338 VRQY-----GLTETTSAILIITPEGDDKPGASGKVVPFLKAKVIDLD---TKTLGP 386
QY 218 KGRFEGSRFLPYHTRNQINGALDGKAPIL--GYAEDPVLFPMHIOGSGRLKTPSGKYI 275
DB 387 NRR-----GEVCVKGPMLMKGYVDNP-EATREIIDEEGWLHTGD---424
QY 276 RIGYADKNEHPYV-----SIGRYMADKGYLKGQTSMQGIKSYMRQNPQRLAEVLGNPS 330
DB 425 -IGYDEKHEFFIVDRLSLIKY---KGY-----QVPPAESVLLQHPN 465
QY 331 YIFPRELAGSNDGPVGLGTPLMGEYAGVADRHYITLGLAPLFVATAHPVTRKALNRLIM 390
DB 466 -IF-----DAGVAGVDPDPIAGELPGAV-----VVLEKGSMTKEVMDYVA 505
QY 391 AQ-DTGSAGIDGAVRDYFWGCGDE-----AGELAGK 420
DB 506 SQVSNAKRLGGVR-----FVDEVPKGLTGKIDGK 535
```


RESULT 25

US-09-396-154-28
; Sequence 28, Application US/09396154
; Patent No. 6602677
; GENERAL INFORMATION:
; APPLICANT: Wood, Keith V.
; APPLICANT: Hall, Mary P.
; TITLE OF INVENTION: Thermostable luciferases and methods of
; FILE REFERENCE: 341.012US1
; CURRENT APPLICATION NUMBER: US/09/396,154
; EARLIER APPLICATION NUMBER: US 09/156,946
; EARLIER FILING DATE: 1998-09-18
; EARLIER APPLICATION NUMBER: PCT/US98/19494
; EARLIER FILING DATE: 1998-09-18
; EARLIER APPLICATION NUMBER: US 60/059,379
; EARLIER FILING DATE: 1997-09-19
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Luciola lateralis
US-09-396-154-28

Query Match 4.0%; Score 94.5; DB 2; Length 548;

Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

Qy	24	KSIQTFQPDTSVINGDPDPVGP	-----DPA-GTTVGGGAVYTV 64
Db	184	KTVEVNRKEQVALIMNSSGSTGLPKGVQLTHENAVTRFSHARDPIYGNQVSPGTAITVV 243	
Qy	65	PH-----LSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAF 105	
Db	244	PFHHGFGMFTTGLYLTGCFRIVMTKFDDEETFLKTLQDYK-----CSSVI 288	
Qy	106	QTPV--HSFOAKOFFERY--FTPMQVAGNSLAGVTGYYPVLKGGDRRTAQAARFIY 161	
Db	289	LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 337	
Qy	162	IPDDFISVPLPAGLRSGKALVRIQTGN-----SGTIDNTGGTHTADLSRPIITARTAI 217	
Db	338	VRQGY-----GLTETTSALIIITPEGDDKFGASGVVPLFKAKVIDLD-----TKKTLGP 386	
Qy	218	KGREGSRFLPYHTRNQINGALDGKAPIL--GYAEDPVELFFMHIQSGRLKTPSGKYI 275	
Db	387	NRR-----GEVCVKGPMMLMGYVDNP-EATREIIDEGWLHTGD-----424	
Qy	276	RIGYADKNEHPYV-----SIGRYMADKGYLKGOTSMQGIKSYMRQNPQRLAEVLGNPS 330	
Db	425	-IGYDEBKHFIVDRLSKLIKY--KGY-----QVPPAELESVLLQHPN 465	
Qy	331	YIFPRELAGSNDGPVGALGTPLMGEVAGAVDRHYITLGAFLFVATAPVTRKALNRLIM 390	
Db	466	-IF-----DAGVAGVPDPIAGELPGAV-----VLEKKGKSMTEKEVMDYVA 505	
Qy	391	AQ-DTGSALDGAVRDVFYWGDE-----AGELAGK 420	
Db	506	SQVSNAKRLRGVVR-----FVDEVPKLGTGKIDGK 535	

RESULT 26

US-09-581-241A-4
; Sequence 4, Application US/09581241A
; Patent No. 6812012
; GENERAL INFORMATION:
; APPLICANT: HATTORI, NORIAKI
; APPLICANT: MURAKAMI, SEIJI
; TITLE OF INVENTION: LUCIFERASE AND A METHOD FOR DETECTING INTRACELLULAR ATP USING THE

; TITLE OF INVENTION: SAME
; FILE REFERENCE: 193582US-3524-7126-0 PCT
; CURRENT APPLICATION NUMBER: US/09/581,241A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: JP97/361022
; PRIOR FILING DATE: 1997-12-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 4
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Luciola lateralis
US-09-581-241A-4

Query Match 4.0%; Score 94.5; DB 2; Length 548;

Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

Qy	24	KSIQTFQPDTSVINGDPDPVGP	-----DPA-GTTVGGGAVYTV 64
Db	184	KTVEVNRKEQVALIMNSSGSTGLPKGVQLTHENLVTRFSHARDPIYGNQVSPGTAITVV 243	
Qy	65	PH-----LSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAF 105	
Db	244	PFHHGFGMFTTGLYLTGCFRIVMTKFDDEETFLKTLQDYK-----CSSVI 288	
Qy	106	QTPV--HSFOAKOFFERY--FTPMQVAGNSLAGVTGYYPVLKGGDRRTAQAARFIY 161	
Db	289	LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 337	
Qy	162	IPDDFISVPLPAGLRSGKALVRIQTGN-----SGTIDNTGGTHTADLSRPIITARTAI 217	
Db	338	VRQGY-----GLTETTSALIIITPEGDDKFGASGVVPLFKAKVIDLD-----TKKTLGP 386	
Qy	218	KGREGSRFLPYHTRNQINGALDGKAPIL--GYAEDPVELFFMHIQSGRLKTPSGKYI 275	
Db	387	NRR-----GEVCVKGPMMLMGYVDNP-EATREIIDEGWLHTGD-----424	
Qy	276	RIGYADKNEHPYV-----SIGRYMADKGYLKGOTSMQGIKSYMRQNPQRLAEVLGNPS 330	
Db	425	-IGYDEBKHFIVDRLSKLIKY--KGY-----QVPPAELESVLLQHPN 465	
Qy	331	YIFPRELAGSNDGPVGALGTPLMGEVAGAVDRHYITLGAFLFVATAPVTRKALNRLIM 390	
Db	466	-IF-----DAGVAGVPDPIAGELPGAV-----VLEKKGKSMTEKEVMDYVA 505	
Qy	391	AQ-DTGSALDGAVRDVFYWGDE-----AGELAGK 420	
Db	506	SQVSNAKRLRGVVR-----FVDEVPKLGTGKIDGK 535	

RESULT 27

US-09-581-241A-6
; Sequence 6, Application US/09581241A
; Patent No. 6812012
; GENERAL INFORMATION:

APPLICANT: HATTORI, NORIAKI
APPLICANT: MURAKAMI, SEIJI

; TITLE OF INVENTION: LUCIFERASE AND A METHOD FOR DETECTING INTRACELLULAR ATP USING THE
; FILE REFERENCE: 193582US-3524-7126-0 PCT
; CURRENT APPLICATION NUMBER: US/09/581,241A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: JP97/361022
; PRIOR FILING DATE: 1997-12-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 6
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Luciola lateralis
US-09-581-241A-6

Query Match 4.0%; Score 94.5; DB 2; Length 548;
Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

QY 24 KSIQTFPQDTSVINGDRPVGIP-----DPA-GTTTGGGGAVTVV 64
DB 184 KTEVNRKEQVALIMNSSGSTGLPKGVOLTHENIVTRFSHARDPIYGNQVSPGTALTIV 243
QY 65 PH-----LSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAF 105
DB 244 PFHHGFGMFTTLGVLTCGFRIVMLTKFDEETFLKTLQDYK-----CSSVI 288
QY 106 QTPV--HSFOAKOFFERY--FTPWQVAGNSLAGTVTGYEYVPLKGDRTTAQARPIY 161
DB 289 LVPTFLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 337
QY 162 IPDDFISVPLPAGLRSGKALVRQTKN---SGTIDNTGGTHTADLSFPPTARTAI 217
DB 338 VROGY-----GLTETTSIIITPEGDDPKGASGVVPLFKAKVIDLD---TKTGLP 386
QY 218 KGRFEGSRFLPYHTRNQINGGALDGKAPIL--GYAEDPVLEFFMHQGGSLKTPSGKYI 275
DB 387 NRR-----GEVCVKGPMLKMGVNDP-EATREIDEEGLHTGD----424
QY 276 RIGYADKNEHPYV-----SIGRYWADKGYLLKGTQSMQGIKSYMRONPORLAEVLGNPS 330
DB 425 -IGYDDEKHFIVDRUKSLIKY---KGY-----QVPPAELESVLLQHPN 465
QY 331 YIFRELAGSSNDGPVCAIGTFLPMGEVAGAVDRHYITLGAFLFVATAHPVTRKALNRLIM 390
DB 466 -IF-----DAGVAGVPDPPIAGELPGAV-----VVLKKGKSMTEKEVMDYVA 505
QY 391 AQ-DTGSALDGAVRVDYFWGYGDE-----AGELAGK 420
DB 506 SQVSNAKRLGGVR-----FVDEVPKGLTGKIDGX 535

RESULT 28
US-09-581-241A-8
; Sequence 8, Application US/09581241A
; Patent No. 6812012
; GENERAL INFORMATION:
; APPLICANT: HATTORI, NORIAKI
; APPLICANT: MURAKAMI, SEIJI
; TITLE OF INVENTION: LUCIFERASE AND A METHOD FOR DETECTING INTRACELLULAR ATP USING THE
; TITLE OF INVENTION: SAME
; FILE REFERENCE: 193582US-3524-7126-0 PCT
; CURRENT APPLICATION NUMBER: US/09/581,241A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: JP97/361022
; PRIOR FILING DATE: 1997-12-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Luciola lateralis
US-09-581-241A-8

Query Match 4.0%; Score 94.5; DB 2; Length 548;
Best Local Similarity 19.7%; Pred. No. 0.75;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

QY 24 KSIQTFPQDTSVINGDRPVGIP-----DPA-GTTTGGGGAVTVV 64
DB 184 KTEVNRKEQVALIMNSSGSTGLPKGVOLTHENAVTRFSHARDPIYGNQVSPGTALTIV 243
QY 65 PH-----LSLPHWAAQDFAKSLQSFRLGCANLKNRQGWQDVCAQAF 105
DB 244 PFHHGFGMFTTLGVLTCGFRIVMLTKFDEETFLKTLQDYK-----CSSVI 288
QY 106 QTPV--HSFOAKOFFERY--FTPWQVAGNSLAGTVTGYEYVPLKGDRTTAQARPIY 161
DB 289 LVPTFLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 337

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;
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-460-934-6

Query Match
Best Local Similarity 4.0%; Score 94.5; DB 1; Length 568;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

Qy 24 KSIQTFPPQDTSVINGDPDPVGP-----DPA-GTTVGGGGAVYTVV 64
Db 204 KTVENRKEQVALIMNSGSLGPKGVLTHTENLVTRFESHARDPIYGNQVSPGTAILTV 263
Qy 65 PH-----LSLPHWAAQDPFASLQSFRLGCANLKNRQGWQDVCAQAF 105
Db 264 PFHHGFGMFTTLGLVTCGFRIVMLTKFDEETFLKTLDYK-----CSSVI 308
Qy 106 QTPV--HSFOAKOFFERY--FTPMQVAGNSLAGVTGYVEPVVLKGDRTTAQAREPIYG 161
Db 309 LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 357
Qy 162 IPDDFISVPLPAGLRSGKALVRIQTGN-----SGTIDNTGTHADLSRFPITARTAI 217
Db 358 VRQGY-----GLTETTSALIIITPEGDDKPGASGVVPLFKAKVIDLD---TKTLGP 406
Qy 218 KRGEGSRFLPYHTRNQINGALDGKAPIL--GYAEDPVELFFMHIOGSGRLKTPSGKYI 275
Db 407 NRR-----GEVCKGPMMLMKGYVNDP-EATREIIDEGWLHTGD---CSSVI 444
Qy 276 RIGYADKNEHPYV-----SIGRYMADKGYLKGQTSMGIKSYMRQNPORLAELVGNPS 330
Db 445 -IGYDEKHFVIVDRLSLIKY---KGY-----QVPPAELESVLLQHPN 485
Qy 331 YIFFRELAGSNDGPGVAGLGTPLMGEYAGVDRHYITLGAFLVATAHPVTRKALNRLIM 390
Db 486 -IF-----DAGVAGVPDPIAGELPGAV-----VLEKGSMTKEVMDYVA 525
Qy 391 AQ-DTGSAGIDGAVRDYFWGYGDE-----AGELAGK 420
Db 526 SQVSNAKRLRGVR-----FVDEVKGLTGKIDGK 555

RESULT 30
US-08-782-118-6
; Sequence 6, Application US/08782118
; Patent No. 5843746
; GENERAL INFORMATION:
; APPLICANT: TATSUMI, HIROKI
; APPLICANT: FUKUDA, SATOSHI
; APPLICANT: KIKUCHI, MAMORU
; APPLICANT: KOYAMA, YASUJI
; TITLE OF INVENTION: BIOTINYLATED FIREFLY LUCIFERASE, A GENE
; TITLE OF INVENTION: FOR BIOTINYLATED FIREFLY LUCIFERASE, A RECOMBINANT DNA, A
; TITLE OF INVENTION: PROCESS FOR PRODUCING BIOTINATED AND A BIOLUMINESCENT
; TITLE OF INVENTION: ANALYSIS METHOD
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/782,118
; FILING DATE: 13-JAN-1997
; CLASSIFICATION: 435
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/460,934
; FILING DATE: 05-JUN-1995
; APPLICATION NUMBER: JP 193798/1994
; FILING DATE: 27-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 54625/1995
; FILING DATE: 14-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 98857/1995
; FILING DATE: 24-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 7126-001-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 568 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-782-118-6

Query Match
Best Local Similarity 4.0%; Score 94.5; DB 1; Length 568;
Matches 90; Conservative 56; Mismatches 147; Indels 163; Gaps 24;

Qy 24 KSIQTFPPQDTSVINGDPDPVGP-----DPA-GTTVGGGGAVYTVV 64
Db 204 KTVENRKEQVALIMNSGSLGPKGVLTHTENLVTRFESHARDPIYGNQVSPGTAILTV 263
Qy 65 PH-----LSLPHWAAQDPFASLQSFRLGCANLKNRQGWQDVCAQAF 105
Db 264 PFHHGFGMFTTLGLVTCGFRIVMLTKFDEETFLKTLDYK-----CSSVI 308
Qy 106 QTPV--HSFOAKOFFERY--FTPMQVAGNSLAGVTGYVEPVVLKGDRTTAQAREPIYG 161
Db 309 LVPTLFAILNRSELLDKYDLSNLVEIASGGA-----PLSKEIGEAVAR-RFNLP 357
Qy 162 IPDDFISVPLPAGLRSGKALVRIQTGN-----SGTIDNTGTHADLSRFPITARTAI 217
Db 358 VRQGY-----GLTETTSALIIITPEGDDKPGASGVVPLFKAKVIDLD---TKTLGP 406
Qy 218 KRGEGSRFLPYHTRNQINGALDGKAPIL--GYAEDPVELFFMHIOGSGRLKTPSGKYI 275
Db 407 NRR-----GEVCKGPMMLMKGYVNDP-EATREIIDEGWLHTGD---CSSVI 444
Qy 276 RIGYADKNEHPYV-----SIGRYMADKGYLKGQTSMGIKSYMRQNPORLAELVGNPS 330
Db 445 -IGYDEKHFVIVDRLSLIKY---KGY-----QVPPAELESVLLQHPN 485
Qy 331 YIFFRELAGSNDGPGVAGLGTPLMGEYAGVDRHYITLGAFLVATAHPVTRKALNRLIM 390
Db 486 -IF-----DAGVAGVPDPIAGELPGAV-----VLEKGSMTKEVMDYVA 525
Qy 391 AQ-DTGSAGIDGAVRDYFWGYGDE-----AGELAGK 420
Db 526 SQVSNAKRLRGVR-----FVDEVKGLTGKIDGK 555

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OM nucleic - nucleic search, using sw model

Run on: December 30, 2005, 16:27:04 ; Search time 96 Seconds
(without alignments)
370.325 Million cell updates/sec

Title: US-09-914-454B-1

Perfect score: 20

Sequence: 1 tccatgacgttctcgacgtt 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents NA:*

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PCRTUS COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	2	US-09-133-774-12
2	20	100.0	20	3	US-09-303-862-12
3	20	100.0	20	3	US-08-738-652-10
4	20	100.0	20	3	US-09-030-701-62
5	20	100.0	20	3	US-09-286-098-100
6	20	100.0	20	3	US-09-286-098-105
7	20	100.0	20	3	US-08-960-774-10
8	20	100.0	20	3	US-09-082-649B-51
9	20	100.0	20	3	US-09-082-649B-56
10	20	100.0	20	3	US-09-082-649B-58
11	20	100.0	20	3	US-09-325-193A-86
12	20	100.0	20	3	US-09-325-193A-90
13	20	100.0	20	3	US-09-131-170-97
14	20	100.0	20	3	US-09-690-921-1
15	20	100.0	20	3	US-09-301-829A-1
16	20	100.0	20	3	US-09-692-170C-42
17	20	100.0	20	3	US-09-337-619-10
18	20	100.0	20	3	US-10-405-231A-42
19	20	100.0	20	3	US-10-238-607-42
20	20	100.0	20	3	US-09-984-365-42
21	20	100.0	20	3	US-09-565-906-1
22	20	100.0	20	3	US-09-257-188A-2
23	20	100.0	20	3	US-09-965-101-51
24	20	100.0	20	3	US-09-965-101-56

25	20	100.0	20	3	US-09-965-101-58	Sequence 58, Appl
26	20	100.0	20	3	US-10-697-055-42	Sequence 42, Appl
27	20	100.0	20	3	US-10-651-013-14	Sequence 14, Appl
28	20	100.0	20	3	US-09-917-222B-1	Sequence 1, Appl
29	20	100.0	20	3	US-09-954-987B-83	Sequence 83, Appl
30	20	100.0	20	3	US-09-672-126B-83	Sequence 83, Appl
31	20	100.0	44	3	US-09-082-649B-12	Sequence 12, Appl
C 32	20	100.0	44	3	US-09-082-649B-13	Sequence 13, Appl
33	20	100.0	44	3	US-09-965-101-12	Sequence 12, Appl
C 34	20	100.0	44	3	US-09-965-101-13	Sequence 13, Appl
35	18.4	92.0	20	3	US-09-954-987B-131	Sequence 131, Appl
36	17	85.0	17	3	US-09-030-701-39	Sequence 39, Appl
37	17	85.0	17	3	US-09-286-098-70	Sequence 70, Appl
38	17	85.0	17	3	US-08-960-774-70	Sequence 70, Appl
39	17	85.0	17	3	US-09-325-193A-60	Sequence 60, Appl
40	17	85.0	17	3	US-09-191-170-64	Sequence 64, Appl
41	17	85.0	17	3	US-09-337-619-70	Sequence 70, Appl
42	17	85.0	17	3	US-09-954-987B-34	Sequence 34, Appl
43	17	85.0	17	3	US-09-672-126B-50	Sequence 50, Appl
44	16.8	84.0	20	2	US-09-133-774-11	Sequence 11, Appl
45	16.8	84.0	20	3	US-08-386-063-25	Sequence 25, Appl

ALIGNMENTS

RESULT 1

US-09-133-774-12

; Sequence 12, Application US/09133774B

; Patent No. 5962636

; GENERAL INFORMATION:

; APPLICANT: Bachmaier, Kurt

; APPLICANT: Hessel, Andrew J.

; APPLICANT: Neu M.D., Nikolaus

; APPLICANT: Penninger, Josef M.

; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart

; FILE REFERENCE: A-536

; CURRENT APPLICATION NUMBER: US/09/133,774B

; CURRENT FILING DATE: 1998-08-12

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 12

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Chlamydia trachomatis

; FEATURE:

; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a

; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from

; OTHER INFORMATION: Chlamydia trachomatis.

US-09-133-774-12

Query Match 100.0%; Score 20; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCGACGTT 20

|||||

Db 1 TCCATGACGTTCTCGACGTT 20

RESULT 2

US-09-303-862-12

; Sequence 12, Application US/09303862

; Patent No. 6034230

; GENERAL INFORMATION:

; APPLICANT: Bachmaier, Kurt

; APPLICANT: Hessel, Andrew J.

; APPLICANT: Neu M.D., Nikolaus

; APPLICANT: Penninger, Josef M.

; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart

; FILE REFERENCE: A-536

Tue Jan 3 10:58:22 2006

; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.

US-09-303-862-12

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 3

US-08-738-652-10
; Sequence 10, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide

US-08-738-652-10

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 4

US-09-030-701-62
; Sequence 62, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28

; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-62

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 5

US-09-286-098-100
; Sequence 100, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence

US-09-286-098-100

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 6

US-09-286-098-105
; Sequence 105, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 105
; LENGTH: 20
; TYPE: DNA

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-105

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
    |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 7
US-08-960-774-10
; Sequence 10, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-10

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
    |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 8
US-09-082-649B-51
; Sequence 51, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
```

```
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphorothioate backbone.
US-09-082-649B-51

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
    |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 9
US-09-082-649B-56
; Sequence 56, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has phosphodiester backbone.
US-09-082-649B-56

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
    |||||
Db 1 TCCATGACGTTCTCTGACGTT 20
```

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
 Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 12
 US-09-325-193A-90
 ; Sequence 90, Application US/09325193A
 ; Patent No. 6406705
 ; GENERAL INFORMATION:
 ; APPLICANT: Davis, Heather L.
 ; APPLICANT: Schorr, Joachim M.
 ; APPLICANT: Krieg, Arthur M.
 ; TITLE OF INVENTION: Use of Nucleic Acids Containing
 ; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
 ; FILE REFERENCE: C1039/7025/HCL
 ; CURRENT APPLICATION NUMBER: US/09/325,193A
 ; CURRENT FILING DATE: 1999-06-03
 ; PRIOR APPLICATION NUMBER: US 09/154,614
 ; PRIOR FILING DATE: 1998-09-16
 ; PRIOR APPLICATION NUMBER: PCT/US98/04703
 ; PRIOR FILING DATE: 1998-03-10
 ; PRIOR APPLICATION NUMBER: US 60/040,376
 ; PRIOR FILING DATE: 1997-03-10
 ; NUMBER OF SEQ ID NOS: 98
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 90
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Oligonucleotide
 US-09-325-193A-90

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
 Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 13
 US-09-191-170-97
 ; Sequence 97, Application US/09191170
 ; Patent No. 6429199
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Hartmann, Gunther
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
 ; TITLE OF INVENTION: for Activating Dendritic Cells
 ; FILE REFERENCE: C1039/7017
 ; CURRENT APPLICATION NUMBER: US/09/191,170
 ; CURRENT FILING DATE: 1998-11-13
 ; EARLIER APPLICATION NUMBER: US 08/960,774
 ; EARLIER FILING DATE: 1997-10-30
 ; EARLIER APPLICATION NUMBER: US 08/738,652
 ; EARLIER FILING DATE: 1996-10-30
 ; EARLIER APPLICATION NUMBER: US 08/386,063
 ; EARLIER FILING DATE: 1995-02-07
 ; EARLIER APPLICATION NUMBER: US 08/276,358
 ; EARLIER FILING DATE: 1994-07-15
 ; NUMBER OF SEQ ID NOS: 99
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 97
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: synthetic oligonucleotide

US-09-082-649B-58
 ; Sequence 58, Application US/09082649B
 ; Patent No. 6339088
 ; GENERAL INFORMATION:
 ; APPLICANT: Davis, Heather L.
 ; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Schorr, Joachim
 ; APPLICANT: Wu, Tong
 ; TITLE OF INVENTION: Vectors and Methods for Immunization or
 ; TITLE OF INVENTION: Therapeutic Protocols
 ; FILE REFERENCE: C1039/7009
 ; CURRENT APPLICATION NUMBER: US/09/082,649B
 ; CURRENT FILING DATE: 1998-05-20
 ; PRIOR APPLICATION NUMBER: US 60/047,233
 ; PRIOR FILING DATE: 1997-05-20
 ; PRIOR APPLICATION NUMBER: US 60/047,209
 ; PRIOR FILING DATE: 1997-05-20
 ; NUMBER OF SEQ ID NOS: 85
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 58
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: synthetic oligonucleotide
 ; NAME/KEY: misc_feature
 ; LOCATION: (0)...(0)
 ; OTHER INFORMATION: Backbone is phosphorothioate--phosphodiester
 ; OTHER INFORMATION: chimera
 US-09-082-649B-58

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
 Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 11
 US-09-325-193A-86
 ; Sequence 86, Application US/09325193A
 ; Patent No. 6406705
 ; GENERAL INFORMATION:
 ; APPLICANT: Davis, Heather L.
 ; APPLICANT: Schorr, Joachim
 ; APPLICANT: Krieg, Arthur M.
 ; TITLE OF INVENTION: Use of Nucleic Acids Containing
 ; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
 ; FILE REFERENCE: C1039/7025/HCL
 ; CURRENT APPLICATION NUMBER: US/09/325,193A
 ; CURRENT FILING DATE: 1999-06-03
 ; PRIOR APPLICATION NUMBER: US 09/154,614
 ; PRIOR FILING DATE: 1998-09-16
 ; PRIOR APPLICATION NUMBER: PCT/US98/04703
 ; PRIOR FILING DATE: 1998-03-10
 ; PRIOR APPLICATION NUMBER: US 60/040,376
 ; PRIOR FILING DATE: 1997-03-10
 ; NUMBER OF SEQ ID NOS: 98
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 86
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Oligonucleotide
 US-09-325-193A-86

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1;

US-09-191-170-97

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 14

US-09-690-921-1
; Sequence 1, Application US/09690921
; Patent No. 6544518
; GENERAL INFORMATION:
; APPLICANT: Friede, Martin
; APPLICANT: Gerard, Catherine
; APPLICANT: Hermand, Philippe
; TITLE OF INVENTION: Vaccines
; FILE REFERENCE: B45181-1
; CURRENT APPLICATION NUMBER: US/09/690,921
; CURRENT FILING DATE: 2000-10-18
; PRIOR APPLICATION NUMBER: PCT/EP00/02920
; PRIOR FILING DATE: 2000-04-04
; PRIOR APPLICATION NUMBER: 09/301,829
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 9908885.8
; PRIOR FILING DATE: 1999-04-19
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Human
US-09-690-921-1

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 15

US-09-301-829A-1
; Sequence 1, Application US/09301829A
; Patent No. 6558670
; GENERAL INFORMATION:
; APPLICANT: Friede, Martin
; APPLICANT: Hermand, Philippe
; TITLE OF INVENTION: VACCINES
; FILE REFERENCE: B45181
; CURRENT APPLICATION NUMBER: US/09/301,829A
; CURRENT FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: GB9908885.8
; PRIOR FILING DATE: 1999-04-19
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Immunostimulatory oligonucleotide sequence comprising
; OTHER INFORMATION: one or more CpG motifs
US-09-301-829A-1

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 16

US-09-692-170C-42
; Sequence 42, Application US/09692170C
; Patent No. 6562345
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don J.
; TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPITOPES OF HUMAN CYTOMEGALOVIRUS
; FILE REFERENCE: 1954-346
; CURRENT APPLICATION NUMBER: US/09/692,170C
; CURRENT FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/534,639
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 09/075,257
; PRIOR FILING DATE: 1998-05-11
; PRIOR APPLICATION NUMBER: US 09/021,298
; PRIOR FILING DATE: 1998-02-10
; PRIOR APPLICATION NUMBER: US 08/950,064
; PRIOR FILING DATE: 1997-10-14
; PRIOR APPLICATION NUMBER: US 08/747,488
; PRIOR FILING DATE: 1996-11-12
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic DNA adjuvant
US-09-692-170C-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 17

US-09-337-619-10
; Sequence 10, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-10

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Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 18
US-10-405-231A-42
; Sequence 42, Application US/10405231A
; Patent No. 6726910
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don J.
; TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPITOPES OF HUMAN CYTOMEGALOVIRUS
; FILE REFERENCE: 1954-346
; CURRENT APPLICATION NUMBER: US/10/405,231A
; CURRENT FILING DATE: 2003-04-03
; PRIOR APPLICATION NUMBER: US/09/692,170C
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/534,639
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 09/075,257
; PRIOR FILING DATE: 1998-05-11
; PRIOR APPLICATION NUMBER: US 09/021,298
; PRIOR FILING DATE: 1998-02-10
; PRIOR APPLICATION NUMBER: US 08/950,064
; PRIOR FILING DATE: 1997-10-14
; PRIOR APPLICATION NUMBER: US 08/747,488
; PRIOR FILING DATE: 1996-11-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic DNA adjuvant
US-10-405-231A-42

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 19
US-10-238-607-42
; Sequence 42, Application US/10238607
; Patent No. 6727093
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don J.
; TITLE OF INVENTION: HCMV- REACTIVE T CELLS AND USES THEREFOR
; FILE REFERENCE: 1954-398
; CURRENT APPLICATION NUMBER: US/10/238,607
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 09/692,170
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/534,639
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 09/075,257
; PRIOR FILING DATE: 1998-05-11
; PRIOR APPLICATION NUMBER: US 09/021,298
; PRIOR FILING DATE: 1998-02-10
; PRIOR APPLICATION NUMBER: US 08/950,064
; PRIOR FILING DATE: 1997-10-14
; PRIOR APPLICATION NUMBER: US 08/747,488
; PRIOR FILING DATE: 1996-11-12
```

```
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic DNA adjuvant
US-10-238-607-42

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 20
US-09-984-365-42
; Sequence 42, Application US/09984365
; Patent No. 6733973
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don J
; TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPITOPES OF HUMAN CYTOMEGALOVIRUS
; FILE REFERENCE: 1954-384
; CURRENT APPLICATION NUMBER: US/09/984,365
; CURRENT FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: US 09/692170
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/534639
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 09/075257
; PRIOR FILING DATE: 1998-05-11
; PRIOR APPLICATION NUMBER: US 09/021298
; PRIOR FILING DATE: 1998-02-10
; PRIOR APPLICATION NUMBER: US 08/950064
; PRIOR FILING DATE: 1997-10-14
; PRIOR APPLICATION NUMBER: US 08/747488
; PRIOR FILING DATE: 1996-11-12
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DNA adjuvant containing CpG sequences
US-09-984-365-42

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 21
US-09-565-906-1
; Sequence 1, Application US/09565906
; Patent No. 6737066
; GENERAL INFORMATION:
; APPLICANT: Moss, Ronald B.
; TITLE OF INVENTION: HIV Immunogenic Compositions and Methods
; FILE REFERENCE: P-IM 4029
; CURRENT APPLICATION NUMBER: US/09/565,906
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: US 60/132,762
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: US 60/150,667
```


Tue Jan 3 10:58:22 2006

```

; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic DNA adjuvant
US-10-697-055-42

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGACGTTCTCTGACGTT 20
Db      1  TCCATGACGTTCTCTGACGTT 20

RESULT 25
US-10-651-013-14
; Sequence 14, Application US/10651013
; Patent No. 6924135
; GENERAL INFORMATION:
; APPLICANT: ZEON CORPORATION
; TITLE OF INVENTION: No. 6924135el DNA encoding Eimeria glycerolaldehyde-3-phosphate
; FILE REFERENCE: GAPDH gene of Eimeria
; CURRENT APPLICATION NUMBER: US/10/651,013
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Oligonucleotide
US-10-651-013-14

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGACGTTCTCTGACGTT 20
Db      1  TCCATGACGTTCTCTGACGTT 20

RESULT 26
US-10-697-055-42
; Sequence 42, Application US/10697055
; Patent No. 6843992
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don J.
; TITLE OF INVENTION: HCMV- REACTIVE T CELLS AND USES THEREFOR
; FILE REFERENCE: 1954-398
; CURRENT APPLICATION NUMBER: US/10/697,055
; CURRENT FILING DATE: 2003-10-31
; PRIOR APPLICATION NUMBER: US/10/238,607
; PRIOR FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 09/692,170
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/534,639
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 09/075,257
; PRIOR FILING DATE: 1998-05-11
; PRIOR APPLICATION NUMBER: US 09/021,298
; PRIOR FILING DATE: 1998-02-10
; PRIOR APPLICATION NUMBER: US 08/950,064
; PRIOR FILING DATE: 1997-10-14
; PRIOR APPLICATION NUMBER: US 08/747,488
; PRIOR FILING DATE: 1996-11-12
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 20

Qy      1  TCCATGACGTTCTCTGACGTT 20
Db      1  TCCATGACGTTCTCTGACGTT 20

RESULT 27
US-10-651-013-14
; Sequence 14, Application US/10651013
; Patent No. 6924135
; GENERAL INFORMATION:
; APPLICANT: ZEON CORPORATION
; TITLE OF INVENTION: No. 6924135el DNA encoding Eimeria glycerolaldehyde-3-phosphate
; FILE REFERENCE: GAPDH gene of Eimeria
; CURRENT APPLICATION NUMBER: US/10/651,013
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Oligonucleotide
US-10-651-013-14

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGACGTTCTCTGACGTT 20
Db      1  TCCATGACGTTCTCTGACGTT 20

RESULT 28
US-09-917-222B-1
; Sequence 1, Application US/09917222B
; Patent No. 6938261
; GENERAL INFORMATION:
; APPLICANT: Granoff, Dan
; APPLICANT: Moe, Gregory R.
; TITLE OF INVENTION: VACCINES FOR BROAD SPECTRUM PROTECTION
; TITLE OF INVENTION: AGAINST DISEASES CAUSED BY NEISSERIA MENINGITIDIS
; FILE REFERENCE: CHOR001
; CURRENT APPLICATION NUMBER: US/09/917,222B
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: US 60/221,495
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CpG nucleotides
US-09-917-222B-1

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 TCCATGACGTTCCCTGACGTT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCCCTGACGTT 20

RESULT 29

US-09-954-987B-83
; Sequence 83, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 83
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-83

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGACGTT 20
| | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCCCTGACGTT 20

RESULT 30

US-09-672-126B-83
; Sequence 83, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 83
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-83

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGACGTTCCCTGACGTT 20
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Db 1 TCCATGACGTTCCCTGACGTT 20

Search completed: December 30, 2005, 18:56:48
Job time : 98 secs

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OM nucleic - nucleic search, using sw model

Run on: December 30, 2005, 18:49:36 ; Search time 494 Seconds
(without alignments)
334.793 Million cell updates/sec

Title: US-09-914-454B-1

Perfect score: 20

Sequence: 1 tccatgacgttctgacgtt 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA Main:

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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-09-760-506-3
2	20	100.0	20	3	US-09-768-012-3
3	20	100.0	20	3	US-09-824-468-100
4	20	100.0	20	3	US-09-824-468-105
5	20	100.0	20	3	US-09-949-194-1
6	20	100.0	20	3	US-09-917-222-1
7	20	100.0	20	3	US-09-800-266A-86
8	20	100.0	20	3	US-09-800-266A-90
9	20	100.0	20	3	US-09-895-007A-86
10	20	100.0	20	3	US-09-895-007A-90
11	20	100.0	20	3	US-09-920-313-86
12	20	100.0	20	3	US-09-920-313-90
13	20	100.0	20	3	US-09-888-326-560
14	20	100.0	20	3	US-09-888-326-561
15	20	100.0	20	3	US-09-888-326-562
16	20	100.0	20	3	US-09-888-326-563
17	20	100.0	20	3	US-09-818-318-10
18	20	100.0	20	3	US-09-931-563-47
19	20	100.0	20	3	US-09-776-479-69
20	20	100.0	20	3	US-09-776-479-137
21	20	100.0	20	3	US-09-776-479-152
22	20	100.0	20	3	US-09-776-479-153
23	20	100.0	20	3	US-09-776-479-223

24	20	100.0	20	3	US-09-776-479-302	Sequence 302, App
25	20	100.0	20	3	US-09-776-479-948	Sequence 948, App
26	20	100.0	20	3	US-09-776-479-949	Sequence 949, App
27	20	100.0	20	3	US-09-776-479-950	Sequence 950, App
28	20	100.0	20	3	US-09-776-479-951	Sequence 951, App
29	20	100.0	20	3	US-09-776-479-952	Sequence 952, App
30	20	100.0	20	3	US-09-776-479-953	Sequence 953, App
31	20	100.0	20	3	US-09-776-479-954	Sequence 954, App
32	20	100.0	20	3	US-09-776-479-955	Sequence 955, App
33	20	100.0	20	3	US-09-776-479-956	Sequence 956, App
34	20	100.0	20	3	US-09-776-479-957	Sequence 957, App
35	20	100.0	20	3	US-09-776-479-958	Sequence 958, App
36	20	100.0	20	3	US-09-776-479-1023	Sequence 1023, App
37	20	100.0	20	3	US-09-954-987B-83	Sequence 83, Appl
38	20	100.0	20	3	US-09-967-464-1	Sequence 1, Appl
39	20	100.0	20	3	US-09-984-365-42	Sequence 42, Appl
40	20	100.0	20	3	US-09-776-479-69	Sequence 69, Appl
41	20	100.0	20	3	US-09-776-479-137	Sequence 137, App
42	20	100.0	20	3	US-09-776-479-152	Sequence 152, App
43	20	100.0	20	3	US-09-776-479-153	Sequence 153, App
44	20	100.0	20	3	US-09-776-479-223	Sequence 223, App
45	20	100.0	20	3	US-09-776-479-302	Sequence 302, App

ALIGNMENTS

RESULT 1
US-09-760-506-3
; Sequence 3, Application US/09760506
; Publication No. US20010034330A1
; GENERAL INFORMATION:
; APPLICANT: Kensil, Charlotte
; TITLE OF INVENTION: Innate Immunity-Stimulating Compositions of CpG and
; TITLE OF INVENTION: Saponin and Methods Thereof
; FILE REFERENCE: 8449-153-999
; CURRENT APPLICATION NUMBER: US/09/760,506
; CURRENT FILING DATE: 2002-01-12
; PRIOR APPLICATION NUMBER: 60/200,853
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/175,840
; PRIOR FILING DATE: 2000-01-13
; PRIOR APPLICATION NUMBER: 60/128,608
; PRIOR FILING DATE: 1999-04-08
; PRIOR APPLICATION NUMBER: 60/095,913
; PRIOR FILING DATE: 1998-08-10
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Motif
US-09-760-506-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 2
US-09-768-012-3
; Sequence 3, Application US/09768012
; Patent No. US2001004416A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: McCluskie, Michael J.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for

Tue Jan 3 10:58:23 2006

; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1040/7010/HCL/MAT
; CURRENT APPLICATION NUMBER: US/09/768,012
; CURRENT FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 60/177,461
; PRIOR FILING DATE: 2000-01-20
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (8)...(8)
; OTHER INFORMATION: Cytosine is unmethylated.
; NAME/KEY: modified_base
; LOCATION: (17)...(17)
; OTHER INFORMATION: Cytosine is unmethylated.
US-09-768-012-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 3
US-09-824-468-100
; Sequence 100, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-100

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 4
US-09-824-468-105
; Sequence 105, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the

; TITLE OF INVENTION: Inducing a Th2 Immune Response
; FILE REFERENCE: C1040/7010/HCL/MAT
; CURRENT APPLICATION NUMBER: US/09/768,012
; CURRENT FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 60/177,461
; PRIOR FILING DATE: 2000-01-20
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (8)...(8)
; OTHER INFORMATION: Cytosine is unmethylated.
; NAME/KEY: modified_base
; LOCATION: (17)...(17)
; OTHER INFORMATION: Cytosine is unmethylated.
US-09-768-012-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 3
US-09-824-468-100
; Sequence 100, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-100

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 4
US-09-824-468-105
; Sequence 105, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the


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; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CpG nucleotides
US-09-917-222-1

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 7
US-09-800-266A-86
; Sequence 86, Application US/09800266A
; Patent No. US2002015603A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-86

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 8
US-09-800-266A-90
; Sequence 90, Application US/09800266A
; Patent No. US2002015603A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-86

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 9
US-09-895-007A-86
; Sequence 86, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AMS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-86

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 10
US-09-895-007A-90
; Sequence 90, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AMS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-90
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us-09-914-454b-1.rnpbm

Tue Jan 3 10:58:23 2006

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 11
US-09-920-313-86
; Sequence 86, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-86

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 12
US-09-920-313-90
; Sequence 90, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-90

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 13
US-09-888-326-560
; Sequence 560, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 560
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)-(0)
; OTHER INFORMATION: phosphorothioate backbone
US-09-888-326-560

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 14
US-09-888-326-561
; Sequence 561, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 561
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-888-326-561

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 15
US-09-888-326-562

; Sequence 562, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 562
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: chimeric phosphorothioate/phosphodiester backbone
; OTHER INFORMATION: with phosphorothioate at 5' and 3' ends
US-09-888-326-562

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 16

US-09-888-326-563
; Sequence 563, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 563
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-563

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 17

US-09-818-918-10

; Sequence 10, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-10

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 18

US-09-931-583-47
; Sequence 47, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-931-583-47

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 19

; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 223
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-223

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 24

US-09-776-479-302
; Sequence 302, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 302
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-302

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 25

US-09-776-479-948
; Sequence 948, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093

; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 948
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-948

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 26

US-09-776-479-949
; Sequence 949, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 949
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-949

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
|||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 27

US-09-776-479-950
; Sequence 950, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 950
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence

us-09-914-454b-1.rnpbm

Tue Jan 3 10:58:23 2006

Best Local Similarity 100.0%; Pred. No. 5.6; Mismatches 0; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20

DB 1 TCCATGACGTTCTCTGACGTT 20

RESULT 30

US-09-776-479-953

; Sequence 953, Application US/09776479

; Publication No. US20030087848A1

; GENERAL INFORMATION:

; APPLICANT: Bratzler, Robert L.

; APPLICANT: Petersen, Deanna M.

; APPLICANT: Fouron, Yves

; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the

; FILE REFERENCE: C1037/7013 (HCL/MAT)

; CURRENT APPLICATION NUMBER: US/09/776,479

; CURRENT FILING DATE: 2001-02-02

; PRIOR APPLICATION NUMBER: US 60/179,991

; PRIOR FILING DATE: 2000-02-03

; NUMBER OF SEQ ID NOS: 1093

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 953

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Sequence

US-09-776-479-951

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 5.6;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20

DB 1 TCCATGACGTTCTCTGACGTT 20

Search completed: December 30, 2005, 20:15:11

Job time : 495 secs

FEATURE:

; OTHER INFORMATION: Synthetic Sequence

US-09-776-479-950

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 5.6;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20

DB 1 TCCATGACGTTCTCTGACGTT 20

RESULT 28

US-09-776-479-951

; Sequence 951, Application US/09776479

; Publication No. US20030087848A1

; GENERAL INFORMATION:

; APPLICANT: Bratzler, Robert L.

; APPLICANT: Petersen, Deanna M.

; APPLICANT: Fouron, Yves

; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the

; FILE REFERENCE: C1037/7013 (HCL/MAT)

; CURRENT APPLICATION NUMBER: US/09/776,479

; CURRENT FILING DATE: 2001-02-02

; PRIOR APPLICATION NUMBER: US 60/179,991

; PRIOR FILING DATE: 2000-02-03

; NUMBER OF SEQ ID NOS: 1093

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 951

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Sequence

US-09-776-479-951

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 5.6;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20

DB 1 TCCATGACGTTCTCTGACGTT 20

RESULT 29

US-09-776-479-952

; Sequence 952, Application US/09776479

; Publication No. US20030087848A1

; GENERAL INFORMATION:

; APPLICANT: Bratzler, Robert L.

; APPLICANT: Petersen, Deanna M.

; APPLICANT: Fouron, Yves

; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the

; FILE REFERENCE: C1037/7013 (HCL/MAT)

; CURRENT APPLICATION NUMBER: US/09/776,479

; CURRENT FILING DATE: 2001-02-02

; PRIOR APPLICATION NUMBER: US 60/179,991

; PRIOR FILING DATE: 2000-02-03

; NUMBER OF SEQ ID NOS: 1093

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 952

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Sequence

US-09-776-479-952

Query Match 100.0%; Score 20; DB 3; Length 20;